ISSN 0149-9971

REVIEW OF INTERNATIONAL BROADCASTING

(From the 1982 HAPPY STATION Calendar)

Edited and published by Glenn Hauser

Issue 62 $1¼ Mar '82

FREETHINKERS ON HAM RADIO

by Roger Stewart, N6FJH, Pasadena, California

In response to an article on religious broadcasters on shortwave and one on a Jehovah's Witnesses ham radio net, I am writing to offer a bit of sanity and fresh air. It is the generally accepted fact that a drug pusher is a very undesirable character to have running loose in society. The reason for this is very obvious to anyone who has any moral judgment whatsoever. The dope dealer is selling a life of mental, physical, and moral degeneracy to his innocent victims who quickly become hooked on his wares, and sink deeper and deeper into oblivion.

Yet at the same time, for some reason obscure to me, this same society condones and even gives special sanctions to the purveyors of institutionalized insanity who call themselves religious broadcasters. In this modern age of scientific wonders in which men walk on the moon, probes travel to the outer planets of our solar system and beam beautiful full-color photographs of heretofore unexplored worlds across millions of miles of space, right into our own homes, and in which genetic engineering techniques are on the verge of unraveling the very mystery of life itself, mentally unbalanced individuals are allowed to freely express dangerous and mind-warping ideas to the entire world.

These broadcasts subject children and those in developing countries who may not as yet have had a good rational scientific education to a type of brainwashing and hypnotic propaganda which, in my opinion, is just as, if not more, detrimental to the advancement of the human condition as anything ever thought of at Radio Moscow. I would never let my children hear such garbage until they were of sufficient age and sophistication to be immune from the harmful long-term psychological damage these programs represent, and I would hope that the same can be said for all intelligent parents throughout the United States and the rest of the world as well.

As an antidote to the religious broadcasters, who occupy a vastly disproportionate amount of spectrum space in comparison with the majority of human beings who are rational, a small but determined group of amateur radio operators has been in existence on the west coast of the United States for over ten years now. Known as the Freethinkers Group, they meet every night on 3922 kHz in the General Class portion of the 80 meter ham band starting at approximately 0430 UTC (8:30 pm Pacific time, so will become 0330 UTC when DST goes into effect).

Dr Ralph Ennis, WA6GVG, the moderator of the group, discusses many varied topics of social and political relevance, including all aspects of church-state separation, the threat to quality public education now being presented by the "Scientific Creationists", and the questionable practices of Falwell's so-called "Moral Majority". On occasion, Dr Ennis reads some short essays by the great American freethinker Robert G Ingersoll. All others in the group then discuss the reading, round-table style.

The group has not been without its trials and tribulations as one can imagine. On many occasions, the self-righteous Christians who say that all points of view have a valid place on the airwaves, show us their brotherly love and tolerance by jamming the group with obscenities and bodily noises. Just last year, Dr Ennis was threatened with loss of his license because these Christian jammers had made tape recordings of Ralph's transmissions, and later played them back to make it appear that Ralph had either been talking to himself, or they played his voice on top of some other ham net frequency to make it seem that Ralph had been jamming the net himself. Boy, those Christians are nice, friendly lovable bastards, ain't they!

Due to expert legal help from a dedicated Atheist attorney who is also a ham and member of Ralph's group, it would appear that these annoyances have been successfully dealt with for the present, and the Freethinkers Group continues to hold forth nightly, giving Atheist hams a place to exercise their Constitutional right to freedom of speech and expression.

Most participants in the group are members of one or more Atheist organizations, such as Madelyn O'Hair's American Atheists in Austin, Texas, or Freedom From Religion Foundation in Madison, Wisconsin. However, membership in such organizations is certainly not required to take part in the Freethinker discussion group. Any shortwave listener possessing a receiver of good quality and capable of receiving SSB transmissions on the 80 meter ham band is more than welcome to give us a listen. If you want to take part in the discussions, however, you must hold a valid amateur radio licence of General class or higher to be allowed to legally transmit signals on the ham bands.

Incidentally, I started out as a shortwave listener about five years ago, and when I came across Ralph's net last summer, I was so inspired by his wholesome, sane outlook, that I worked my asteroid off and obtained my ham ticket in two months! Give us a try any night on 3922 whenever you get fed up with Russian propaganda or have finally had it up to here with HCJB or WYFR. You'll really enjoy a breath of intellectual fresh air!

- -

(Ed Stone, NY) Re Bolland's comments about religious ham nets, I've noticed another one, The Christian Fellowship Net, about 3950 kHz in the evening. Members address each other as Brother, and discuss Bible verses. I don't agree with the religious doctrines, but I find the optimistic and good-natured attitudes encouraging. Anyone know times and frequencies of nets discussing microcomputers?

DIRECT SATELLITE BROADCASTING ON SHORTWAVE?

(R Horvitz) On 10/23/81, the Gov't Information & Individual Rights Subcommittee held hearings on the proposed Radio Martí, & on the possibility of b'casting VOA & RFE/RL direct from satellites using the HF band. GPO has published the hearings, along with supporting documentation; since there's no order #, I assume it can be had for free on request from the Subcom Chairman, Rep. Glenn English, US House of Reps, Wash, DC 20515. At least that's how I got a copy.

The Radio Martí part of the hearings was a short, awkward fiasco. Myles Frechette, Director of the State Dept's Office of Cuban Affairs, & William Salmon, State's Senior Advisor for Science & Technology/Office of Security Assistance, were unable to provide satisfactory answers to very basic questions, like: why are you asking for funds to build & staff a station now, when the Presidential Commission's recommendations aren't due until next Oct.? why couldn't VOA produce a Spanish-language "Cuban Hour" & accomplish the same goals more cheaply? what if Cuba decided to retaliate by jamming domestic US stations? About half-way thru, realizing that they had shot themselves in the foot, Salmon tried to bail out: "I think you have helped us a good deal on how we will make our presentation to Congress on this subject. We will make very certain that the questions you have raised are very clearly thought out and presented." Rep. Thomas Kindness: "I think that is the purpose of such inquiries as this. You have to remember we are easily confused." Salmon: "Well, sir, I think the confusion may begin on our side in many cases..." I found it noteworthy that Rep. English seemed so willing to rewrite VOA's charter to facilitate "information campaigns" directed against specific target countries. This doesn't bode well for journalistic independence at VOA.

Most of the hearing, however, was about HF/DBS. The star witness was Thomas F. Rogers, who (in his own words) "was responsible for the overall design, development & deployment of the first global satellite communications system" when he worked for the Defense Dept. Now a private citizen, he has been studying & promoting the idea of an HF/DBS among various increasingly-receptive gov't agencies. Apparently he was inspired by an article published in the Aug 78 EBU Review by G. J. Phillips & P. Knight: "Use of the 26-MHz Band for Satellite Broadcasting", which is appended to the hearings and very worth reading. Highlights: "Unlike the other HF bands, whose effectiveness tends to be limited by congestion, the 26-MHz band (25.6-26.1 MHz) is relatively little used at present, because of propagation effects. With conventional /terrestrial/ transmitters, it is suitable for international b'casting...only for a small proportion of of the time. During the years near sunspot minimum, it cannot be used effectively at any time of the day at any season of the year... /But/ 26-MHz transmissions from satellites can be received reliably (apart from occasional solar-flare attenuation) and with negligible distortion throughout the day and night in zones near the sub-satellite point...ionospheric effects reduce the reliability for higher latitudes, and at other longitudes relative to the satellite, particularly for daytime reception. For a geostationary satellite, there would be good reliability within a circle centred on the sub-satellite point and passing through points approximately 50° N, S, E or W of the point. /Because of over-the-horizon reflection/ Signals can also reach the side of the Earth away from the satellite and could interfere with other satellite or terrestrial transmissions on the same channel. The ionosphere has a considerable effect on the polarisation of 26-MHz waves passing through it. Fading caused by polarisation changes can be completely eliminated by transmitting with circular polarisation and this is an essential requirement. If a conventional HF receiver with a 5-kHz bandwidth were used, a 39-dB signal-to-noise ratio could be achieved with a geostationary satellite having a transmitter power of 5 kW. The same result could be achieved with a transmitter power of 1.5 kW if a satellite in an 8-hr orbit were used. A single satellite in this orbit would make 2 passes per day and would be suitable if 30 minute to 1 hr morning and evening transmissions only were required to be received in a given area..." (Phillips & Knight are with the BBC Research Dept.--or rather, were in 1978.)

In contrast, testimony by George Jacobs, former Director of Engineering at RFE/RL, was much more cautionary: "There appears to be state-of-the-art limitations in spaceborne power supplies, RF generation devices, & antenna configurations which could substantially curtail or constrain technological development, unless very substantial funds & resources are made available in an attempt to solve these novel problems. The satellite would likely have to be extremely heavy, heavier than anything we have launched into space for communications up until now. The cost for construction, launch into orbit, & annual operating costs would require an initial congressional appropriation roughly on the order of $300 to $500 million, and possibly considerably more. With an expected life of from 3-5 yrs, this amount would have to be appropriated on a periodic basis. The satellite cost would thus be greater than any appropriation previously granted RFE/RL for its entire programing, research & technical operations, & nearly 5 times as great as terrestrial transmission costs at the present time. There are no frequency bands available in

the radio spectrum for international b'casting by satellites. Attempts to gain international support for such bands in the HF, VHF, UHF & microwave portions of the spectrum for sound b'casting failed at both the 1977 & 1979 WARCs... The availability of a suitable number of receivers for reception of /26 MHz/ satellite signals in Eastern European countries & in the Soviet Union is questionable... Soviet ground jammers would appear to have the capability of jamming downcoming satellite signals at the terrestrial receiver... The vulnerability of satellite transmissions to skywave & other forms of jamming remains to be assessed... a program to develop a DBS system capable of b'casting internationally could easily require 6 yrs or more from inception to operational status.../etc./"

Despite these obstacles, a variety of actions are being taken. The BIB's FY-1983 budget requests $250,000 to study both DBS & new anti-jamming techniques. Representatives of VOA, BIB & RFE/RL met last July with the Space Applications Board of the National Academy of Sciences, who "in turn encouraged us to pursue our interests with NASA," according to James Conkling, VOA's new Director. Conkling adds, "we are encouraging also AFRTS to join with us in these further negotiations." Following GAO's recommendation (see RIB 54), BIB asked James Buckley, Undersecretary of State for Security Assistance, "to undertake on an urgent basis a multiagency study of the technical, financial, legal & regulatory issues involved in" international b'casting via satellite (Jacobs). A DBS task force has formed, and met for the first time last November. William Salmon testified that "The International DBS Panel will proceed in 3 major areas of study. The first concerns the identification of potential US requirements & objectives, to be led by ICA/VOA. NASA will take the lead in the second study area, which deals with the technical & financial aspects. The third area of study coordinated by State will deal with the international policy implications of US international DBS."

Given the high cost and inevitable controversy of an HF/DBS system, it is important to note that Thomas Rogers' concept goes way beyond a flashy new toy for VOA & RFE/RL. He's talking about "an international common carrier for international audio broadcasting... I don't want to overstress this--but I do think there are ways by which obtaining this capacity can be approached in which the United States doesn't just go it alone, but embraces the interests...and the desires of a large number of countries as well. My understanding is that there are over 100 countries b'casting internationally on HF, and if we...encourage the widest participation of international interests in it, this would reduce the likelihood of its disruption at least somewhat, and probably to a great extent. The experience of the Intelsat space communications system/service is instructive & encouraging in this regard... If one imagines, for the moment, using all 50 channels in the 26-MHz region for satellite audio b'cast communications, the cost per channel would come down markedly. I am working on a paper right now that indicates.../that/if we are able to imagine a system that would effectively replace the present country-by-country retail, if I may, transmission plant by an international wholesale transmission plant, I would not be surprised if we could see the basic cost per audio channel, per million square miles of selectable service area, per year, being commensurate with the cost of owning & operating the technical plant of a local high-powered AM station, perhaps, roughly, a few hundred thousand dollars a year..." No other witness supported the idea of international participation in an HF satellite--or directly opposed it. What do you all think?

(Arthur Hill, Satellite Communications, Jan 82, via R Horvitz) There has been a revival of interest in the VOA and RFE/RL since January /1981/, particularly among the new, conservative members of the House and Senate who believe that international broadcasting can be a powerful foreign policy tool. It was for this reason that Rep. Glenn English (D--Okla), chairman of the House Subcommittee on Government Information and Individual Rights, held a one-day hearing on the potential of DBS /Direct Broadcasting Satellites/ for international broadcasting. Senator Larry Pressler (R--SD) introduced a resolution calling for a government study on the subject. Pressler said the study (which was actually already underway when he introduced his proposal) was necessary because "we do not want to risk missing any unpredictable technological breakthroughs because of inaction." ...As sources involved with the interagency task force stated, the first step in the process is to learn how much a DBS system would cost, at which frequency it could operate, whether or not it is--in fact--less susceptible to jamming than conventional short wave transmissions, and how receptive international organizations such as the ITU would be to allowing direct satellite broadcasts in bands other than those already allocated for DBS. Assuming that the results of the task force study are positive, the use of DBS by the US government could prove to be a shot in the arm for commercial use of the technology...

gh: Notwithstanding my comments in Feb Listeners Notebook, see also Broadcasting Magazine, Jan. 11, p. 76, "Shortwave DBS?", an article making no mention of the 11 meter band--a range I have also previously advocated for direct satellite broadcasting. For an even more novel idea, see next page....

Communications By 'Mirror' Might Be Cheaper Than By Satellite

EUGENE, OR — A University of Oregon physicist has invented a communications "mirror" that could be launched and kept aloft for far less money than it takes to put a communications satellite in place. According to Dr. Paul Csonka, the mirror is described as a delicate grid of wires, shaped like a common microwave dish, that would be "floated" by the radiation pressure of a microwave beam directed at it from the earth's surface.

Csonka's mirror—which has been granted a patent—would weigh approximately one *gram*, and have a radius of two to three meters. Either aluminum or carbon fibers, one micron in diameter and spaced two millimeters apart, would be used to form the grid. There would be no other support structure.

One possible use of the communications mirror would be the direct reflection of TV- and radio-broadcast signals. Csonka feels that this method of signal distribution is environmentally safer than use of antennas (operating on the same frequency), which are located at heights up to 2000 feet above the ground and spaced at 100- to 200-mile intervals. "There are many people," according to Csonka, "who are afraid to live near TV antennas because of the intensity of radiation."

Since the mirror would be located much closer to the earth's surface than would a communications satellite, signals reflected from the mirror would need much less power, says Csonka. Although enthusiastic about this feature of the invention, Csonka is quick to admit that it is not going to obsolete satellites.

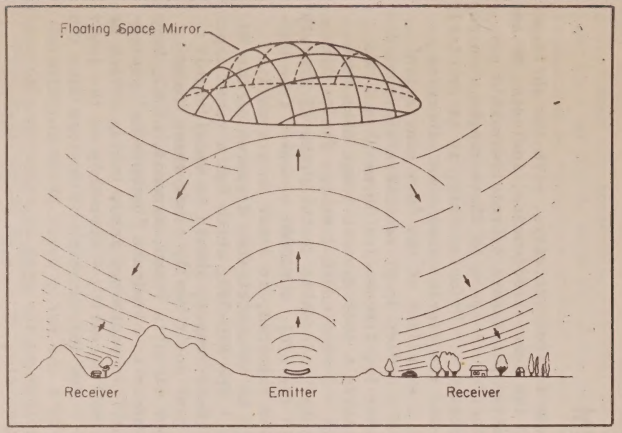
To place one of these mirrors above the earth, a protective shroud would be placed around the mirror, and a balloon would float the mirror to a height of roughly 30 miles. At that altitude, the mirror would be safe from possible atmospheric damage during its ascent, and the shroud could be jettisoned along with the balloon, says Csonka. The microwave power source would then be used to continue moving the dish upward until the desired position is reached.

It is Csonka's feeling that 50 kW of 1-cm (30-GHz) radiation would be necessary to support the dish against gravity. He points out that the 50-kW figure represents the amount of power that must be directed perpendicularly to the dish, and that up to 150 kW must be available to correct possible drift. The University of Oregon physics professor envisions several phased antennas, rather than a single reflector, to provide a safety margin.

Vertical movement could be achieved merely by increasing or decreasing the power of the support beam. Horizontal movement could be accomplished, but it would be tricky, according to Csonka. The support beam would have to be moved in the desired direction, but very slowly. Otherwise, Csonka warns, the mirror would begin to wobble, and control might be lost.

Csonka estimates the launching cost of his mirror at roughly $100,000, with another $130,000 needed annually to power the flotation devices. Csonka feels this is inexpensive when compared to the $40 million needed to send up a satellite in stationary orbit, and the $1 million per year for satellite rental fees. Csonka estimates that the price of the 36-MHz bandwidth offered by the mirror would be 1000 times less than what it would cost if a communications satellite were used.

Though the Department of Energy funded his initial research Csonka has no further source of money at this time, and is actively seeking sponsorship. He feels that, once funding is obtained, a prototype would take about a year to prepare.



"Floating" communications mirror is held in place by 30-GHz radiation from earth's surface. According to its inventor, the mirror is capable of providing signal coverage over a 1300-mile-diameter circle.

(Electronic Engineering Times, April 6/13, 1981, via Will Martin) are likely to encounter price-gouging--accomodations as far away as Chattanooga or Nashville, or $100 a night in Knoxville where some poor student has been evicted. $2 per toilet visit on the site, etc. No, I cannot accomodate visitors but will be glad to meet at WMOT visiting RIBbers. Reserve early...

RADIOVOICE (James Tedford, MI) I am the production manager of a new radio-oriented magazine, RADIOVOICE. We are preparing to publish our first issue, in March 1982. We will produce our bi-monthly magazine in a medium new to radio-type publications: cassette tape. Our 60-minute recordings will feature a variety of information: station schedules, programme notes, various articles and equipment reviews, short stories, and radio monitoring news. We are as well planning a number of other activities, such as recordings of DX stations, DX personality interviews, and other subjects.

Our sample issue will be available March 1 for $1.50 U.S. funds, made payable to James Tedford. Overseas samples are 6 IRCs. Subscription will be for US $13 in North America. Orders and inquiries should be sent to RADIOVOICE, P O Box 6045 Grand Rapids, MI 49506, USA. We are also offering a discounted subscription price of $10 for handicapped DXers.

We will be soliciting contributions of material for publication, and news from the various radio clubs. We feel that RADIOVOICE will provide a unique approach in a shortwave magazine, and although it is intended for all radio hobbyists, it is especially suited for blind and physically handicapped enthusiasts as it is more accessible than many other publications.

gh: Sounds interesting, although it might be like a non-broadcast DX program. I know nothing about this beyond what Mr Tedford has said above. The price seems quite reasonable considering what cassette copies of radio programs, for instance, are costing these days.

THE 1982 WORLD'S FAIR (gh) This will probably be the first and last mention of it in RIB. By now word should be getting out to the nation and the world that Knoxville(') is the venue. While there will be interesting exhibits & performances, visitors

EQUIPMENT FORUM

SHORTWAVE AUDIO FIDELITY BREAKTHROUGH? (Larry Magne, Penns Park PA) Good news, one hopes, is that an American firm is planning to introduce an accessory that, if successful, should bring shortwave listening into the realm of more acceptable audio fidelity, both with voice and music. This is mentioned in general terms in the 1982 World Radio TV Handbook, but more definitive will be the tests we hope to conduct on four receivers this January or February: Drake R-7, Drake R4245, Japan Radio NRD-515, and Racal RA6790/GM. The results, whether positive or not, will be aired over RCI SWL DIGEST and then included in the WRTH Newsletter. I'll keep you apprised, of course, as if this succeeds and becomes a new norm for shortwave receivers, the improvement should not only make the popularization of SWLing more likely and widespread, but also music will be a more acceptable format for SW broadcasters who can resist the urge to lecture ad infinitum. This could go a long way towards having international broadcasting move more in the directions gh and Kim Elliott, among others, have outlined in past issues of RIB.

The 1982 Handbook equipment reviews attempt to fill in the "gaps" from earlier years. Portables (or "portables"; some are anything but light and compact) above $500 are tested; these range from the Panasonic RF-6300 to the gadgety RF-9000. Table models from the Yaesu FRG-7700 to the McKay Dymek DR 101-6, with special emphasis on the Drake R-7 as compared with the Japan Radio NRD-515, are also included.

Loren Cox's observations in January RIB concerning synthesization were right on the mark. It's encouraging to know some are listening this carefully. I concur with Scott McDonald's comments concerning elder Drake receivers; for the money, a good used R-4B is hard to approach, although its skirt selectivity is only fair and in some tuning ranges (notably 120 meters) the unit is not sensitive. By the way, the US firm of E-tek makes a 6-digit (100 Hz) LED digital readout for the R-4 series; I purchased mine some years back from Gilfer and don't know right off whether they still carry it. I see it is still advertised in QST as the model FR-4 at $159.95; manufacturer's address is E-tek, 1028 Greene St., Marietta OH 45750; phone (614) 374-2280.

PLAN FOR THE LOW FREQUENCIES (Loren Cox, Jr., Corbin KY) People who have gotten into SWL within the past few years, which has been a time of high sunspot activity, with the maximum usable frequency going well into the VHF range, are going to be in for some surprises as the MUF descends. At the nadir, at nights, will suspect their receivers non-functional above 25m & perhaps even 31m. Of course..60. 90. 120. the BCB & LW will be very good. With the crowding (already excessive) that will result on 31, 41 & 49 m, don't see how certain broadcasters will be able to resist going to 60 & perhaps even longer wavelengths. BBC used 120 to North America during WW II, which was a period of low sunspot activity. With the shift of emphasis to the lower frequencies, including MW and LW, prospective purchasers of receivers sh'd pay greater attention to specs on these ranges when considering receivers. Unfortunately, it is precisely on these lower frequencies that some otherwise pretty good & excellent of the 'new generation' (synthesized & wadley loop) receivers are most deficient - that is, frequencies lower than 4 MHz. Poor sensitivity & poor dynamic range have been the problems - & some unusual design faults like the power supply harmonics in the Drake R7 (surely corrected in the R7A). A $2000+ receiver (the NRD-505) has been reported, at least in its earlier versions, to be an unmitigated disaster on the MW & LW ranges. The NRD-515, which has a tuned input circuit on these ranges, should be considerably better. I just don't really trust these broad--banded input circuits Yaesu, Kenwood, et al, have gone to in order to eliminate 'bothersome' preselector tuning. An accessory input tuning device becomes a virtual necessity - certainly on the lower wavelengths. The introduction of devices like the Yaesu FRT7700 & the McKay Dymek DP-40 constitute tacit admissions on the part of these manufacturers of the inadequacies of some of their receivers' 'front ends'. The best MW receiving arrangement I have ever had (and still have) is the old Hammarlund HQ150/HC10 combination; have not used it much in recent years because BCB DX possibilities have been few, and don't like to use that much electricity.

Trying to get good copy on the BBC Wittgenstein program, I made the mistake of using an RF2600 when a decent receiver w'd have produced adequate results. C'd kick myself for not using my colleague's FT-7 rx which was available, being in the building to be sold. Tried it a day too late, discovering that it produces excellent results (using ECSS mode) on the few broadcast stations in its tuning range, including BBC @ 7325. In fact, I was so impressed it leads me to wonder if the level of receiver performance I want might best be obtained in one of the new 'general coverage' ham rxs, e.g. the FT-ONE. As an investment, a device of that sort makes more sense than a very expensive receive-only device, as a [transceiver] is always easier to sell than a receiver. ... Another temptation from Ferrell: price reduction on Nerd & two additional filters; looks like I may succumb to it, plastic box & all - unless a desperate ham dealer has an R7 or FT-ONE he wants to give away.

MORE ON THE NRD-515 (Bob Foxworth, NY) I read with interest the comments by Loren Cox, (Jan RIB p 6) regarding the NRD-515. This is the first I had ever heard regarding plastic construction of the receiver. If true, this is a recent development. My example of this set, admittedly one of the earlier ones, has metal top and bottom cover pieces that are screwed into the main internal frame. The front panel is mainly metal with a small plastic overlay covering the LEDs and S-meter. Mine has

never shown any scratches. If that is such a problem, what do you do with it, throw darts at the readouts when reception is bad? (just kidding!) More importantly, Loren, if you're looking for stability for "unattended ECSS reception" then I suggest you forget the R-7 and its thermally susceptible analog permeability tuned oscillator. You'll find the gradual drift it exhibits is totally unacceptable for your needs. I have to tell you that, once it warms up (an hour or so) and is left turned on, the NRD is the only set I have ever tried that shows this kind of stability. It may sound as if I am being partisan, given that I did do one of the earliest NRD reviews in the DX press (a sesquiyear ago) but I have tried both the NRD-515 and the R-7 extensively, in cooperation with Larry Magne, and that is the way I found it. The only significant disadvantages to the NRD are the lack of a notch filter (easily added with about $15 worth of parts) and less bandwidth versatility (partially remedied with addition of a 3 to 3½ kHz filter in the aux position). On the other hand, the ease of tuning (relative to the cumbersome R-7 method) and the memory option make the NRD significantly more attractive in my opinion. Finally, RF handling capabilities of the two receivers are basically similar.

RECEIVER INFO IN ham radio (Richard L Clearman, Edmonds WA) The November 1981 issue of ham radio is devoted to receivers and an understanding of modern receivers and their technical specifications. Five of the six feature articles concern receivers. "Understanding Performance Data of High-Frequency Receivers," by Jan Moller, gives the reader a good understanding of specs the manufacturers give in their literature. Much of the info Moller gives us is not found in the specs for typical SWL receivers on the market today. However, I would recommend anyone who is considering the purchase of a new receiver read this article so he gets an idea of the variables and tradeoffs he must consider in purchasing a receiver. Even Larry Magne would find this article interesting and informative. The next article, "Add-on Selectivity for Communications Receivers," by Dr. D.A. Tong describes the Datong Model FL1 and FL2 audio filters. He starts with justifying the need for audio filters in addition to the necessary selectivity in the intermediate frequency stage of a receiver and ends with describing the operation of his filters. Another article describes an up-conversion receiver designed and built from readily available parts by George Cutsogeorge and includes pictures, block and circuit diagrams and the warning that this construction project is not for the average kit builder. Part 2 was to appear in the December issue. The last receiver article is an owner's survey of the Drake TR7 transceiver. Although not wholly a receiver article, the TR7 receiver section is similar to the R7 model 1240 receiver and the reader may find this survey useful. Not to be outdone by the editorial department, the salespersons have been busy, too, as there are full page ads for the R1000 and the RF-3100. ICF-2001 and R7 receivers. The manufacturers must believe there is a market for these receivers but I wonder if they advertised in the right publication, for ham radio targets to only a small percentage of hams who must already have receivers. These ads, of course, were sold to go along with the receiver theme of this issue. If only one of the popular electronic magazines would do feature articles like these, combined with advertising, our hobby would certainly gain. I'm sure many RIB readers will find the November and December issues of ham radio very helpful and informative, especially those with a technical interest and/or background.

ICF-2001 KEYBOARD PROBLEMS; PROMOTION; and MODIFICATION (Victor Goonetilleke, Sri Lanka) Maybe Glenn has punched his keyboard a million times, but mine started giving trouble even before I punched a key a thousand times. On mine, 5, 6, 0 and memory 2 and 5 won't enter with the 'tick'. You have to press hard and then at times you have double entry. This is a common problem. I think one out of every 10 sets have it after about two months use. Only one advantage in this fault. I punched 6195 and executed and heard VOA on 619 (Botswana relay on 621!) as the 5 hadn't entered; a station I had wanted very much and had tried many times, just happened to fade up at the moment over three other stations! MW DXers will know what I mean!

gh: Yes, I frequently get MW (or LW) when one of the SW digits doesn't take, but it's usually noise rather than Botswana! One way to improve the hard-key problem is to knock the ICF-2001 off onto a (carpeted) floor, as I did quite by accident, to find that there was no damage, but the 7 key was working much better. Now it's the 4, the enter-memory, and the down key that take lots of extra pressure... The tolerances of the contacts under the keys must be extremely tiny and critical.

(Joel Rubin, Berkeley CA) In case you haven't noticed it, Sony has been putting full-paged ads for the ICF-2001 in the (drum roll) New York Times Sunday Magazine. The theme is "Come In Planet Earth" --very Sci-fiey, as befits the '2001. Can it be long before LAVERNE & SHIRLEY fans are startled from their coma by the strains of Also Sprach Zarathustra, as the '2001 slowly rises in the East over the Takashimaya Department Store?

(Rick Lucas, Stockton CA) Sony had an ad for the ICF-2001 "Worldband Radio" on page 21 of the Oct 5 issue of TIME mag. The beginning of the solution to the 'SWL publicity' problem, rather half the problem. The isolated tyro still needs to learn of the clubs. Perhaps ANARC could place modest ads in the want-ad sections of certain electronics mags? This Sony ad gladdens my heart with the thought of fiercely competitive and innovative manufacturers, but...

(Michael Yanul, Chicago IL) I recently received a letter from SONY after I wrote them about a minor keyboard problem on my ICF-2001. The letter states the same thing that Mr Jon Strom of SONY stated in Oct RIB. I find this hard to believe. Word of the keys failing began to spread months ago. Many

ICF-2001 owners I know have experienced some sort of keyboard problem. For two years I have used a cheap pocket calculator daily and it never fails. I have had my ICF-2001 less than a year and use it only a few times a week and it shows signs of problems developing. At a price of $300 or more, it should outlast a cheap calculator. Here's SONY's letter:

(Harriet Allgaier, Customer Relations Supervisor, SONY, Niles IL, Sept. 11, 1981) I am informed that all of the switches on the ICF-2001 are the soft-touch type. Should individual switches become defective, they may be replaced. This is the first time that we have had communication from any of our customers concerning failure of these switches, and therefore, do not consider this a major problem. Also, FYI, the same switches are used both in direct tuning and memory preset selectors.

(William Dang, Calgary Alta) Picked up an ICF-2001 while on a recent trip to Hong Kong for about $180 Canadian. Pretty good performance although not as good as an FRG-7. This would be a good radio for travelling (compact size) if it were not for the high battery consumption. When purchased, it did not have an AC power supply. Since nobody seemed to stock the right power supply for this radio, I decided to build one. This can be done by using a 12.6V filament transformer, a bridge rectifier, a few 1000 microfarad capacitors and a 5 volt 3 terminal regulator. The proper output voltage is had by connecting a silicon rectifier diode in series with the output of the regulator. The approx. 0.7 V offset voltage of the diode will give about 4.2-4.3 volts. Since the ICF 2001 draws up to 600 milliamps, the supply should be constructed accordingly. Some 3-terminal regulators generate a tremendous amount of noise and hash, wiping out all but the most powerful signals, so care should be taken in selecting a regulator. The ICF-2001 also is very sensitive to power line noise, more so than another SONY radio I own (ICF-5500W [sic]). A quiet regulator and using a metal box to build the supply in as well as hooking the enclosure to an earth ground helps considerably. Other than its mediocre scanner, the only other serious disappointment with this radio is its pedestrian performance on MW and LW. This is caused in part by the almost nonexistant ferrite loopstick SONY puts in (approx. 2" long compared to 6½" to 7" on good radios; surely they can do better). One has to use the whip antenna, which is nondirectional and does not null out unwanted signals. Use of an external loop antenna such as the Radio West Ferrite helps a lot.

(Philip Hiscock, St. John's, Nfld) Over the past year or so, I've been hearing and reading reviews of the SONY 2001 which would make you think it is the best thing invented since the time of Marconi. My curiosity was running over and when the Sony 6700W I own went into radio hospital, I convinced the local Sony Dealer to lend me a 2001 until the 6700 was fixed. I have spent a week now with the 2001. Boy, I wouldn't pay $529 (the Canadian list) for it. If it was offered for maybe $200 or $250, I'd think about it. The first thing I noticed about it was the sound: really poor. This, of course, is partially because of the small speaker, but even with headphones, it is not much improved. Unlike my 6700, there is no IF bandwidth switch, which would improve sound considerable on stronger, clearer stations. The 2001 seems to be stuck in a fairly narrow (though for SSB, not narrow enough) IF bw. The sound is a whole lot better on my 'punk' radio: an oldish transistor jobby which serves as my backup receiver, and which cost me $50, and which looks like it was run over by a truck. The next thing I noticed about the 2001 was how poor reception was on it. Not knowing much about the situation, it would seem to me that the signal/noise ratio is low. In any case I get a steady hiss in the background, no matter how strong the station is normally. Now, mind you, I'm not using an external antenna, but neither did I with the 6700, and my punk radio has much better reception with just a scissors rammed down into the top of it. [?! gh] Even the ferrite bar antenna inside the 2001 seems poor. None of the local MW stations bring the signal strength meter up to level 5. [They easily do on mine -gh]. I can't even receive my favourite C&W MW station, which is a measly 35 miles away, on the 2001. And this no matter what way I twist and turn the radio to align the ferrite with the signal. I tried switching the RF Gain control around. First of all, it seems to me that it is labelled arse-foremost. "DX" is low RF level and "LOCAL" is higher RF level. There is little significant difference between the "LOCAL" setting and the "NORMAL" setting [there is on mine -gh]. The Antenna Adjustment wheel seems to do nothing. Perhaps this was a peculiarity of the set that I was using; I noticed more play in the wheel than seemed proper. Perhaps it was broken, I don't know. [again, it works on mine -gh]. As an example of the poor reception, I usually listen to R. Australia in the morning over breakfast, that is, when my wife thinks reception is good enough for civilised listening. With the 6700 this is easy: RA comes in loud & clear on 9580 kHz for the WORLD & PACIFIC NEWS. On my punk radio (Mr Scissors) it comes in loud, but wavers quite a bit. On the 2001 I couldn't even hear it unless I touched the antenna. The Volume Control slide was noisy: this was particularly noticeable when at minimum volume: wiggle the slide and the volume would jump to half volume, with great amounts of scratchiness. [Mine did develop this problem too after gathering lots of dust, face-up as it is -gh]. The built-in whip antenna seems cheap and likely to break off if the cat comes too close to it. [Agreed; I've been extra-careful and so far it has only acquired a slight bend -gh]. I could go on with half a dozen other minor ("petty", you say?) complaints such as the lack of a "CLEAR" button (you have to "EXECUTE" your mistake and then start over), lack of 41mb listing on panel, but I won't. Instead, to anyone who already has a decent radio considering trading it in on 2001, caveat emptor.

ICF-5900W IS FINE (Kenneth J Kaiser, Brooklyn NY) I have for the last two years owned a SONY ICF-5900W which is fine for my purposes. Since AM DX-ing has long been my passion, let me say that the 5900W is absolutely the best I've ever used. It seems to have a special proclivity for picking up previously thought to be impossible 1000 and 5000-watt stations up and down the east coast. The SW reception is fine too, for my purposes.

THE SONY ICF-S5 (Grant Sharman, Ibaraki, Japan) In recent months, contRIButors have given favorable descriptions of the Sony ICF-S5W. A few words about the domestic model: In a modern Osaka hotel ("sealed building") my test frequencies, 549 kHz (Vladivostok) and 576 (Khabarovsk) gave "Moscow Nights" loud and clear. On the FM band, 5 NHK stations were received; 2 is the best I can remember on other receivers except that I counted an even dozen (on Sony's little signal-seeking pocketable) half-way up Mt Fuji a couple of years ago. The crystal tuning for domestic shortwave (NSB I & II) gave 4 frequencies out of 6 possible. Here in a seaside inn (virtually "outdoors") the S5 gives, similarly, 5 NHK FM stations and 4 NSB frequencies--and the AM band yields more stations than than you can shake a stick(-antenna) at, Russian, Korean, Chinese, and even the little FEN facility at Iwakuni (1575 kHz) with football scores, All-Savers' new rate and military admonitions. The discount price is ¥14,000, roughly $60.00 (Nov. 2)

SONY & PANASONIC AT NEW YORK DISCOUNT PRICES (Armand Di Filippo, Philadelphia, Jan. 4 & 16) 47th Street Photo Inc. is a mail order house offering very low discount prices on all Panasonic and Sony receivers of interest to radio hobbyists. VISA and MASTER CARD are both accepted; Canadian orders will be filled provided payment is in U.S. funds. (The easiest payment method for Canadians would be via Master Card or Visa). If one finds any other discounter offering desired radio at a lower price, they should inform 47th St. Photo of this, stating price and company. In many cases, 47th St. Photo will either match or beat this price. (This is especially true if that quote was from a competing NYC discount house and where the price can easily be confirmed). 47th St. Photo has a "satisfaction guaranteed policy". If not happy with unit, return it within 15 days undamaged and in original packaging to receive credit towards another purchase or full refund less shipping. This company offers two catalogs: A huge 400-page 1982 catalog will be available sometime in February at a cost of about $3. A smaller catalog is currently available for $1. Toll free ordering numbers are available: (800) 223-5661; (800) 221-5858. The non toll-free number is (212) 260-4410. Address is: 47th St. Photo, Inc., Mail Order Division, 36 E. 19 St., New York, NY 10003. Shipping and handling must be added to all prices in next column. Call to find out specific costs to your area. For fastest delivery indicate UPS or Parcel Post Air Mail Special Delivery.

Foto Electric Supply is slightly lower in price than 47th St. Photo on many items (though many times 47th St. will counter by matching or beating) Foto Electric does not have a catalog. Price quotes are given by letter only. An SASE is requested. There is no toll-free number. For Visa or Master-Charge phone orders only: (212) 673-5222. All radios are "freight-collect". Address: Foto-Electric Supply, 31 Essex St., New York, NY 10002. Here are the January prices of the current Sonys and Panasonics at these two stores; [Be sure not to confuse the stores and their requirements! gh]

Receiver	47th St. Photo	Foto-Electric
RF-9000	$ 2393.00	$ 2385
RF-6300	449.95	440
RF-4900	339.95	340
RF-3100	225.95	218
RF-2900	216.95	204
RF-2200	149.95	141
RF- 085	69.95	66
CRF-1	1212.00	not stocked
ICF-6800W	478.95	470
ICF-2001	219.95	220
ICF-6500	149.50	140 (-W)
ICF-7600	99.95	100
ICF-S5W	59.95	55

FALA OVERPRICED? (Peter Jakl, Roselle IL) I like to see ads in RIB, but the price from Fala Electronics for the RF-6300 seems to me out of line; there are two non-discount stores by me which are selling it for $529.

SUPER-EXPENSIVE RECEIVERS [Name withheld] I am in the market for a professional communications receiver. Most magazines review the receivers costing up to about $2,500, like the NRD-505. I am interested in finding out about the best receivers, like the $41,000 Plessey PRD-200A, the $12,000 Redifon R-1001, the $6,500 Rhode Schwarz HF-1030 and the Japan Radio Company's $7,100 NRD-75. What are other top of the line makers of shortwave radio receivers? Does any magazine review them?

(Larry Magne, Penns Park PA) Newly reviewed in the 1982 World Radio-TV Handbook are three professional-grade receivers, the Drake R4245, Collins 451-S1, and Racal RA6790/GM; these are mainly reviewed for the Handbook's commercial/governmental readership, but were also undertaken with an eye to the gilt-edged DXer/SWL. What was interesting is the relationship between cost and performance; we found a performance "peak" in the $1500-1800 price range for SWLing, DXing, and portables alike. Below that, cost compromises are telling, and above that the intended markets have requirements that rarely dovetail with SWL/DX interests, so that from a hobbyist's perspective the added money may or may not obtain something unattainable in the $1500-$1800 price range.

(Richard L Clearman, Edmonds WA) That November 1981 edition of ham radio also has an article describing a receiver for the year 2000 by Ulrich Rohde (of Rohde & Schwartz). He says we know all of the problems to overcome in receiver design to get up to the optimum, and are only limited by current state of the art components. His article describes the Rohde & Schwartz models EK070 (a VLF/

HF rig in the $14,000-$20,000 class) and ESM500 (a VHF/UHF receiver presumably in the same price range). Included in the article are extensive block and circuit diagrams. Part 2 may be in Dec.

...AND SUPERCHEAP (Warren Linds, Tugaske, Sask.) I have yet to see some info in RIB on improving reception on an average portable receiver like the one I have (a Sony FR-33 I picked up used a few years ago for $30--AM and 3 SW bands). I find reception quite good on this radio but would love to improve it. I know that the vast majority of SWLs have receivers like this and not the fancy super-duper table models with digital readouts, etc. that people talk about in RIB. That is, a small antenna, a fine tuning knob, and difficulty in pinpointing exact frequencies. So if any readers have any tips or hints they would be most appreciated.

ESKA ELEKTRONIK RX12A RECEIVER? (Ted Holman, Minneapolis MN) Has anyone ever written to you telling about this receiver, or have you used one? I would like to know how owners feel about them - What they like about them and what changes or improvements they would like to see. What do you know about this receiver, Glenn? [nothing]

RADIO SHACK DX-300 (Rick Lucas, Stockton CA) Re Allen Hughes' pro-300 comments in the 56-57 RIB: If you like your set, you're lucky. It took a year for the '300 to reach Stockton after its introduction on the east coast, (5 months to reach Stockton after hitting San Francisco, 50 miles away). I tend to envision a slow westward intro-creep by the DX-300, perhaps closely followed by a wave of rejected sets. After another 5-month period, using 4 sets, I got a refund. (Most of this time was taken up with waiting for set #4). According to the manager, all the sets I rejected were sold, and I was the only complainant. Right. Bottom line: I might consider paying $100 for a DX-300 that I could examine in-situ, but no more than $50 by mail. They change with use.

(Diane S Lévesque, Baldwin IL) I did an article for ASWLC some time back on the exact differences between the DX-300 and the DX-302 in a blow-by-blow circuit comparison. Since I dropped out of the hobby scene before it got printed (if indeed it ever got printed), I'm not sure if the message got across at all--therefore I'll tell you the conclusion in short: there weren't a hell of a lot of modifications made, but the ones that were made did make one hell of a difference in performance, with the exception of the BFO modification which made zilch performance difference at all. All the BFO change was for was to put at rest the fears of those used to looking for a "BFO PITCH" control per se and decided not to buy when they couldn't find such a thing on the DX-300. The 300 still did a damn good job on sidebands despite prejudice--providing you weren't one of those who got stuck with an early malfunctioning model. The ones that did work did, indeed, work. No fool I, I did not try to unload my 300 onto some unsuspecting SWL with not enough bucks to upgrade. Not only did I do well in handling the machine, but I now have a "limited edition" collectors item. A big Bronx Cheer to the whole damn lot of ya.

ELIMINATING DRIFT IN THE KENWOOD R-1000 (Dave Newkirk, Seattle WA) My experiments are proceeding. So far I have removed the power transformer to a position on a heat sink outside the receiver; I have disconnected and entirely removed the internal speaker to allow its grille to conduct convected air and heat out of the otherwise-unventilated set. (Unventilated, but not unvented; there are louvers on the bottom of the R-1000, but since they do not communicate with any openings on the top of the cabinet, there is not any escape of heat!) Two nights ago I was able to listen to WWV -15000 for 15 minutes receiving it as SSB -- no noticeable drift! My next addition will be a fan atop the former speaker grille. The intent of this, other than that of helping this particular receiver, is to help me decide if my second receiver might be another R-1000 or a used R-4C. The quality of the latter is a known quantity, but so are its limitations and ultimate price.

Unlike some of the other owners of R-1000s, I guess -- and they may have better imaginations than I -- I have yet to experience skywave cross-modulation with the R-1000. I admit that I do not frequent 49 meters at night, but those signals are not as potent here, anyway. A QST review of the R-1000 some months ago put its intermodulation dynamic range just a few dB under an R-4B --that's hard to beat without paying more than double the price.

HR Report, Oct. 23: A NEW GENERAL COVERAGE RECEIVER, the R-600 has just been announced by Kenwood. Its PLL circuit covers 150 kHz to 30 MHz in thirty one-MHz bands, and it includes i-f filters and noise blanker. The R-600 will operate from ac or 12 Vdc. Price and availability haven't yet been released.

QST for November has a full-color Kenwood ad section; including a half page on the R-600. It appears that it is basically an R-1000 with front-panel-mounted speaker, no analogue dial and no clock/timer. RF attenuator is just 20 db on/off, no choice of degree. Mode, instead of being selected by push-buttons, is selectable via a rotary switch; AM wide, AM narrow, USB, LSB/CW. The filters are 2.7 kHz (AM narrow & SSB/CW), and 6 kHz (AM wide). AF gain and tone controls are separate on this radio and not concentric. S-meter has the "S" units augmented by the SIMPO (sic -- am I so far behind the times; is there something besides SIO/SINPO/SINFO or is this a typo?) scale. And this is important, likely meant to appeal more than the R-1000 to an audience ready for LW AM broadcasting: frequency coverage listed as 150 kHz - 30 MHz as opposed to the R-1000's 200 kHz - 30 MHz. (actually, and I have so used it, the R-1000 is quite usable to just below 150 kHz anyway). The copy begins (just above the half page for the R-1000): "The R-600 is a high performance, general coverage communications receiver covering 150-kHz to 30 MHz in 30 bands, at an affordable price."

Will be interesting to see how it stacks up against the Panasonic RF-3100; looks like a good basic radio for an entertainment SWL or a good second radio for a DXer. **Yawn** They can bring out receivers till the cows come home; catalogue DXing won't bring in the weak ones... There is a full-page color ad in this issue for the NRD-515. Also shown as an inset is matching transmitter NSD-515. This receiver has not been advertised by JRC before in QST. Interestingly -- JRC must have been told when this was going to appear in the mag -- the NRD-515 is reviewed in this issue; it receives excellent marks, and for the technically inclined there are crucial specifications tabled right up. Just a hair less dynamic range than the R-7, for those who care.

YAESU-MUSEN FRG-7000G (Loren Cox, Jr., Corbin KY) Read with interest Max G's remarks on the FRG-7000 G; his impressions of, and experiences with, this receiver closely parallel my own. Was purchased in '79, but never c'd get a straight answer from Ferrell about that alleged RF amp problem; he said something about excessive mixer shot noise having to be overridden, but offered no solutions - the rest of his letter was concerned with trying to sell me a RF4900 or Nerd 515. Have noticed a discrepancy in regard to the RF amplifying device used in the FRG-7000; schematic calls for a 3SK51, but mine uses a 3SK40 with a 220 ohm bias resistor (same arrangement as in the FRG-7). Any significant difference between these two devices? Sylvania replacement guide gives different replacements for them, the one for the 3SK40 (ECG454) being the better in that it is gate protected. Have thought of trying one of these, or lowering the value of the bias resistor - say to 150 ohms - or both, but probably won't bother.

A simple test for getting some indication of receiver sensitivity/SNR: This test sh'd be made when noise levels at one's QTH are as low as they are likely to be (tho this w'dn't be necessary for comparing two receivers at the same time). Connect receiver tape output to mike input of tape recorder and then load antenna input with resistive load equivalent to nominal impedence (say 50 ohms); select frequency in higher ranges (I chose at random 25250 kHz); advance recorder record level to get reading of -20 db; without disturbing this setting, remove resistive load from antenna input and replace with antenna; observe db increase on VU meter. In a quiet location, an increase of 10 db or more indicates excellent receiver performance. Forget readings I got when I made A-B-C comparison of FRG7G, FRG7000G & 51J4 (internal VU meter used when testing this receiver) except they were all acceptable, with the 7000 the best, the 7 second, and the 51J third.

The overspill on the 7000 sh'd be approx 50 kHz at each end of each 1 MHz band. Mine was 80 kHz on the high end and 20 kHz on the low end. Can easily be equalized by retracking VFO while observing counter. Repeaking the RF circuits in this, the basic 3-2 MHz receiver, after the VFO retracking is accomplished, will result in slightly enhanced performance.

Was on the verge of sending $1340 to UAR for plasticcased Nurd [see earlier discussion on this] when heard on MEDIA NETWORK about wonderreceiver in works in West Germany: DC to 500 MHz coverage, fabulous stability and input intercept, selectable IF strips, etc., etc.; best thing ever dreamed of for the amateur/SWL market. //Receiver portion of the new Yaesu FT-ONE rx looks very intriguing. Don't know if they intend to offer it as receiver only (FRG-ONE) à la Drake, but, if so, I c'd be interested.

FRG-7 IS A TROUBLE-MAKER (Richard Stoller, NY) I have actually developed the virtue of patience to the point where I can DX within crowded bands like 31m. I almost never did such things up to now. And DXing in ISWBC bands has made me painfully aware that the FRG-7 is a trouble-maker that won't keep IMD [intermodulation distortion] and crosstalk to manageable levels. It's got to go; perhaps with it and the SPR-4 on the block, I could get an R-7, or at least be 50% there.

FICKLE SW MANUFACTURERS? (Ed Stone, NY) I believe in RIB several months ago Yaesu denied that they had discontinued production of the FRG-7. If they did, that would just make those out there more valuable. I'm not sure I understand their marketing plan. Now do they not have three receivers on the market for SWLs--released within a few short years of each other? Has it always been this way? Seems to me back in the 50s or 60s (when I wasn't an SWL, really) one receiver would be released, and if it was good it would be around for a while. Now it seems we've got a new rx every two weeks! I don't see the logic in discontinuing the FRG-7--doubtless that's where they are headed, despite protests to the contrary. I've got an irrational emotional attachment to that rx (which could probably be broken with a new FRG7700??)

PRESELECTORS (Ed Stone, NY) Thanks to Syd Osterman for pointing out an error I apparently made--antenna tuner tunes, not preselector. The MFJ outboard preselector I have seems to incorporate an ATU in the circuit, but I could be wrong. Have to look at the instruction sheet filed away. Whatever the electronic magic, it certainly helps even my fitful SWLing. What puzzles me is the great unevenness--some signals actually get degraded (overloading?) while you'd never know others were there without the (outboard) preselector.

(Rick Lucas, Stockton CA) What in hell is a preselector? Sorry, Syd, (RIB 56-57, p 71), you did not enlighten me one bit. The 75-76 Radio Shack Dictionary of Electronics carries the following definitions: preselector--1. A device placed ahead of a frequency converter or other device to pass signals of desired frequencies but reduce all others. Preselector stage--a radio-frequency amplifier stage in the input of a superheterodyne receiver." To add to my confusion, Larry Brookwell (prexy, San Diego DXers' Club) once stated that a 'true preselector' is one that admits signals of only 5 or 10 kHz width, yet he touts the

KS Preselector! Also, there are some 'preselectors' whose advertising claims 'tuning' of the antenna. Funny, but by all the definitions as above (and including Syd's TRF Amp), I seem to have arrived at the solution; a misunderstanding of terms and concepts. Yet the question remains--when you buy a 'preselector', WHAT DO YOU GET?

(Herb W Baldwin, Hamilton Ont) I noticed comments from AR re MFJ-1040. I tried one out in Florida on RF-2900. There was very substantial improvement on [MW} BC band, as preselector, but nothing on SW. I returned it, saying that if they could repair or replace with results any way comparable on SW to BC, I would be very glad to have it; but they sent me a refund.

(Robert W Skinkle, Jr., Oak Park IL) I'm returning to SWL and have been using a borrowed Frog-7 while I make a receiver purchase decision. I was glad for issue 56-57 to have the functioning of the preselector explained. I was going to buy a trap dipole but every time I peaked the meter I thought I was resonating my 50' longwire; so now I know better! Thanks to Bill Oliver of NASWA, I have plans for an ATU (as commercial units are $30 -$60). For $15 in material costs I can now resonate my long wire and peak the RF stages with the preselector. Tapping the coil I had wound proved to be the most difficult step in building the Antenna Tuning Unit, but it does provide a few dB of gain and was fun to build.

As for the receiver decision, I'm thinking no frills Kenwood R-600; has anyone seen one or a price? [see earlier discusssion] I got a catalog from Kenwood and the R-600 was not on the price list. Also, why does Kenwood upconversion PLL not require a preselector?

ANTENNAS (Rick Lucas, Stockton CA) I've been toying with the idea of mounting my KRS ant head within an ETCO plastic parabola, attaching grounded foil on the back-side and using this to combat local QRM, primarily from a very close power-line and transformer. Another idea is to attach more foil to the inside of the parabola, as a reflector. I can foresee a number of problems, though. How to mount the KRS to the parabola and thence to a mast yet leave the KRS usable if this idea doesn't work. It goes without saying that a rotator would be needed, but what of the vertical? Could this just be set at 45o? I'm worried most by Capacitance. Anybody with the money and time willing to give it a try? Or can someone hip to theory categorically reject?

(John Demmitt, Bellefonte PA) Antenna tip. Many radio signals can be received from within your home without an outside antenna. It's an excellent antenna and can be kept out of sight. Connect a 25 foot length of solid bell wire to your receiver's antenna terminal. Take the insulated wire and and run it to the nearest cold water pipe and wrap as much of the insulated wire around it as possible. Do not make a direct connection. This is an inductor antenna. This is the solution to the problem when an outside antenna cannot be strung. It also reduces electrical noises and TV interference. Try it--you'll like it.

TRAP-DIPOLE ANTENNA (William Dang, Calgary Alta.) In the June 1981 issue of POPULAR ELECTRONICS was a construction project for a multiband trap dipole antenna for the SWBC bands. Seeking to improve my present antenna setup (40 ft longwire with 15 ft unshielded downlead mounted 20 ft above ground) I went ahead and built two of them. They were mounted crosswise across the attic, one oriented NE-SW at 35.4o from geographic north (towards Athens, Greece) and the other NW-SE at a like direction (towards Peking, China). Overall length of the antenna is 45 feet, traps are set to resonate the antenna at 49, 31, 25, 19, 16, 13 and 11 meters, and a homemade balun (ratio 6:1) was used to couple to 52 ohm RG-58U coax. Improvement over old installation in signal pickup was about 5 db on 49, 31 and 19m dropping to 2-3 db on 16 and 13 m, to 0 db on 25 and 11 m. Although not designed for use on 41m and tropical bands, there was a 5 db improvement on 41 and 60m dropping to 2-3 db on 75 m, 0 db on 90 m and was lower by 5 db on 120m. Directional discrimination between the two antennas was up to 5 db. This helped to alleviate the interference caused by the horizontal scanning oscillator of TV sets. For anybody who has sufficient space and does not want to put up with the expense of commercially available dipoles, this project is recommended.

MORE ON THE INVINCIBLE ANTENNA WIRE (James J. Whalen, Jacksonville FL) I read with interest Maxfield Greenwood's letter. I've been using the wire he promotes for several years, in a number of applications, and I've been happy with its performance. 22 AWG is a little thicker than really needed for an outdoor antenna application (receive only), but the losses at frequencies we DXers care about aren't too serious. The clear insulation really is good stuff, and I was surprised something that good was used on a wire intended for indoor use. I hadn't thought about the drawbacks of the relatively small spool size. (I don't have room to string any really long antennas anyway.) But I'll bet if Tandy got enough letters requesting this wire in longer lengths (say 1000'), they would listen. Regarding the "lightning proof" properties of insulated wire--forget it. In the first place, where lightning is concerned, there is no such thing as insulation. The potentials available in a thunderstorm (megavolts) are capable of causing arcovers through any insulation. If an ionized cloud sees a path to ground through your antenna, it will take it, if necessary taking antenna, receiver, DXer and anything else, to oblivion. In the second place, the only real protection against lightning is a lightning arrestor--which provides a low impedance path to ground, separated from the antenna conductor by a small air gap. It works kind of like Dr von Frankenstein's method of charging up his famous monster. All this has been said before, but I think it deserves a reprise. Take it from a guy who knows--I once saw a 1500 pound ceramic insulator (p. 32)

LISTENER INSIGHTS ON PROGRAMMING

AFGHANISTAN (Marek Halter, Le Monde, 12 Sept 81, trans. in the Near East/North Africa Report, 9 Oct, via R Horvitz) Free Radio Kabul exists. It broadcasts. Bernard-Henri Levy, Renzo Rosselini and myself have just returned from Afghanistan where we gave the first 3 transmitters to the Afghan resistance. Two months ago, in this very place, we launched an appeal to set up a free radio station in Afghanistan. This project is being achieved, thanks to donations of some people, and to the determination of others. The first broadcast and the station call-theme made the most hardened mountaineers weep. For what they suffer from most grievously in the field is solitude... Resistance does not abate, despite...an intense propaganda campaign conducted by radio Kabul and the Soviet radio in the Afghan language broadcasting from the closest USSR city, Duchambe... Free Radio Kabul is a sign of solidarity of a few thousand individuals. Afghans received it with appreciation. Mr. Safi, commander of the Pech region, even said to us, "The radio that you brought us is worth more than a thousand kalachnikovs." However, we only gave the Afghan resistance 3 transmitters and they need 36 of them to cover all the country. (Gifts can be sent to the Committee for the Rights of Man, Free Radio Kabul, 152 rue du Chateau, 75014 Paris, France.) What is more just and more uplifting than to be able to give persecuted men the means of expressing themselves, of informing themselves, and of communicating? Free Radio Kabul is just that.

ALBANIA (Mark Schlesinger, Clute TX) I rarely tune in Tirana, but decided to take a chance one night. More of the same: an incredibly dull recital on the current 5-year plan, read in monotone even when the "Chinese revisionists" were brought up for assaulting, and one wonders how she even stayed awake. It finally occurs to me that the good burghers of Tirana really aren't broadcasting for the benefit of you and me, the lay public. Their real interest is in "preaching to the converted," and I think that Radio Tirana is more understandable when looked at in that light.

BELGIUM (Ed Stone, NY) I wholeheartedly agree with Howard Huddleston's Dec RIB comments about David Monson's departure. I cannot believe that they were not satisfied with his performance (in the things that count--getting people to listen to BRT)... My guess is that David wanted to do some political stuff and management said "no". Perhaps David will find a way to set up an independent station someplace--take up a collection! The idea is crazy enough to work--maybe? Anyone got an old Viking AM transmitter kicking around? I hope David is heard on the SW bands again soon--under management he is comfortable with. He is too valuable to waste. For David, I believe that self-fulfillment is most important (as for all truly creative artists)--and so I should not say that he should be on the air simply because SW would not be the same without him--but I'll say it anyway!

BRAZIL (via Mike Hardester) Rádio Nacional do Brasil, English hours at 1900-2000 for Europe on 17805 & 15125, and for North America at 0200-0300 on 17830 & 15290, Mon-Sat program structure: OPENING, MUSIC, NEWS, MUSIC; M-F BRAZILIAN SCENERY (actualities, the arts, facts in everyday Brazilian life), Sat THE MAILBAG; MUSIC; then Mon THE NATIONAL ECONOMY, Tue SPORTS IN BRAZIL, Wed ACROSS BRAZIL IN 6 MINUTES, Thu THE HISTORY OF BRAZIL, Fri HIGH LIGHTS OF THE WEEK, Sat THE MAILBAG (more of it); MUSIC, LETTERS, MUSIC, CLOSING. On Sundays, just OPENING, SUNDAY SPECIAL (as per schedule at right), and CLOSING.

FEBRUARY:	7 - ECONOMIC CYCLES IN BRAZIL.
	14 - THE MUSIC OF VINICIUS DE MORAIS.
	21 - THE HISTORY OF CARNIVAL IN BRAZIL.
	28 - SAMBA IN BRAZIL.
MARCH	7 - SANTOS DUMONT, THE FATHER OF BRAZILIAN AVIATION.
	14 - THE MUSIC OF SERGIO MENDES.
	21 - GREAT NAMES IN BRAZILIAN SPORTS.
	28 - BRAZILIAN ROCK MUSIC IN THE VOICE OF RITA LEE.
APRIL:	4 - THE AFRICAN CONTRIBUTION TO BRAZILIAN CULTURE.
	11 - THE MUSIC OF CHICO BUARQUE DE HOLLANDA.
	18 - THE HISTORY AND DESCRIPTION OF BRASILIA.
	25 - THE HITS OF CARMEN MIRANDA.
MAY:	2 - THE CONTRIBUTION OF THE INDIAN TO BRAZILIAN CULTURE.
	9 - BRAZILIAN COUNTRY MUSIC.
	16 - BRAZILIAN CULINARY ARTS.
	23 - ROBERTO CARLOS, THE KING OF BRAZILIAN POPULAR MUSIC.
	30 - BRAZILIAN FAUNA.
JUNE:	6 - THE MELODIOUS BRAZILIAN "CHORINHO".
	13 - BRAZILIAN POPULAR CULTURE.
	20 - MUSIC FOR CHILDREN.
	27 - BRAZILIAN CINEMA.

CANADA (Ed Stone, NY) I think "Fireside Al" Maitland ought to get some sort of award for his recently done holiday dramatic readings! [see also next page for BOOKTIME]

CAYMAN ISLANDS (Ed Bromley, Port Union, Nfld.) I continue to hear the Grand Caymans on 1555 kHz nightly. On Sat. nights they have an excellent SATURDAY SERENADE from 0320 (after news, weather at 0300) to 0430--mostly instrumental oldies. Weeknights they have a similar musical package, but with more vocals, usually uninterrupted (0320-0430). One night recently they played a whole set of late 40s and early 50s pop tunes, including: Frankie Laine's "Cry of the Wild Goose," Nat Cole's "Mona Lisa," Kay Starr's "Bonaparte's Retreat", Andrews Sisters' "Rum and Coca Cola," etc. Their format is similar to WYNZ-970, Portland ME--"Music of Your Life".

CHINA (Richard Stoller, NY) R Peking New Year's show gave us renditions of "Red River Valley" and "Auld Lang Syne". But Maoism persists: when the preparers of each weekly program said that "I see the response and I am inspired to work harder and produce better programs," one did get the picture of a

fabled "Self-criticism session". gh: See page 38 or 39 for R. Peking highlights if they arrive before presstime.

C U B A (gh) The NY Times, Jan. 17, p. 16-L (via Christos Rigas, David L Alpert & George J Munz) carried a story entitled "Cuban Broadcasts Causing Concern" about the mediumwave changes I reported last issue. It includes a section on the problems WVCG, Coral Gables FL, is having from Cuban stations also on 1180. The trouble is, WVCG is on 1080 (where there is another Cuban). Anyone with the most minimal knowledge of the situation ought to know that 1180 in S Florida is occupied by the VOA...

C H I L E (Michelle Shute, Bonifay FL) Can anyone help me identify the station "Radio Magallanes"? I think it's in Chile. I hear it on 31 metres.

gh: That's what they'd like you to think, but it's an open secret that this is transmitted via Radio Moscow facilities. There was a Radio Magallanes in Chile in the days of Allende.

D O M I N I C A N R E P U B L I C (Richard K Clark, La Vega) We are getting a radio station in this country on both AM & FM (maybe SW later) with a format of ranchera music only! It will be the first and only station in this country with this kind of music. My station will not play merengue!!!! That is for sure. The call will be HIQP (Radio Rancherita) in Puerto Plata area. I must say it is sure nice to have the help of the Vice President of this country in getting my first radio station. My wife is in the PRD Party!!! and knows the VP personally. gh: I'll bet you got the idea for this while you were living in El Paso....

F I N L A N D (Ed Stone, NY) With the limited budget they have, concentrating on Finnish programs alone is a good policy. We don't hear all that much about Finland, but we do have many DX shows. In this case, I'd agree with their policy. But, a program about SWLing in Finland would satisfy both needs (one-time show).

(Rolf Løvstrøm, Oslo, Norway) Re Jan RIB: during a visit to Radio Finland I was told they cancelled the DX program and QSLs because they would rather concentrate on the "elite" opinion-makers as audience (teachers, journalists, diplomats), rather than a general SWL audience. What they forget, of course, is that most of us "elitist" listeners today started out as QSL-hunting DXers. Their main audience is in the US and Japan, by the way, and as the Finnish language is virtually incomprehensible to non-Finns, their English service is believed to have quite a high number of listeners among the professional Finland-watchers in Scandinavia. "If we estimate our audience the same way the BBC estimates its, we should have about 3 million listeners world-wide," I was told. They way it was put suggested that even the spokesman considered this rather optimistic. Their thorough but heavy-handed approach reflects, by the way, the style of both radio and newspaper journalism in Finland. Apparently they like it that way.

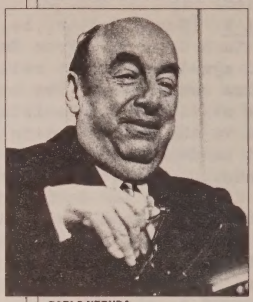
F R A N C E (Jeff Lockwood, Frankfort KY) I will be going to France with my French class in April and I have arranged a tour with R France International. It will be my first visit to a SW station. Does anyone know of some good French stations on AM to listen to?

gh: There are a good many frequencies, but few stations; besides the national networks, just Europe-1, Luxembourg, Monte-Carlo and Sud-Radio; the real action is on FM with loads of pirates, ex-pirates, newly authorized community stations, and government jammers.

G R E N A D A (John Pascoe, Alrington WA) This country seems to be one of the few, if not the only English-speaking nation that is anti-US. As witnessed by a commentary on WEEKEND REVIEW, Jan. 17 around 2300: "Grenadan forces must be prepared to meet the challenge of the US imperialist forces, which are still bent on turning back the revolution." Perhaps Grenada will be taking a tougher line toward the U.S. now that Cuba has helped them put a hi-powered MW station on. gh: remember Guyana...

H U N G A R Y (gh) The four new Sunday music shows referred to in clip on next page rotated in a different order in Feb, each following another alternating talk show, thus (0300 GMT Mons): Feb 7-8, FLOOR IS YOURS & CUSTOM BUILT. 14-15, TREBLE ON A TOPIC & QUESTION OF TASTE. 21-22 WHAT YOU SAY & POP INN. 28-1 March MOBILISATION AGAINST APARTHEID & MASTERS AND MUSIC; and the music programs are repeated Fri+GMT Sat. WEEKLY REPORTS on Thu-Fri include 25-26 Feb. "Control Reflex"--three young en-

PREVIEW



PABLO NERUDA

WIDE WORLD PHOTO

A COLLEAGUE OF Chilean poet diplomat Pablo Neruda (1904-1973) once wrote that "Pablo is one of the few happy men I have known." This rare quality shows up not only in his poems but in his *Memoirs* to be read on CBC Radio by Vancouver actor Lee Taylor. The book is lively, passionate, gossipy and wonderfully descriptive, with keen insights into the lives of some of his most famous contemporaries, including Salvador Allende, the Chilean president who made Neruda his country's ambassador to France.

Born of poor country folk, Neruda became Chile's most eminent man of letters, winner of the Stalin Peace Prize and the Nobel Prize. He began his consular career in the Twenties and was in Spain when the civil war broke out. An elected Communist senator, he was later forced to escape to Mexico during an anti-Communist campaign in his country. Throughout his adventurous life he wrote almost daily, producing 50 volumes of poems. His public readings often took place in sports stadiums, filled to capacity.

Pablo Neruda died just 12 days after his friend Allende was killed in the 1973 military coup. But Neruda, poet and political activist, lives on in such works as *Canto General, Twenty Poems of Love* and *Spain in My Heart*, and in his *Memoirs* to be heard in 15 episodes on **Booktime**, weeknights at 10.20 (10.50 NT), starting Monday, Feb. 22 on CBC Radio.

TURN AT THE TURNTABLE

Four new Sunday shows in different musical idiom start their careers this month:

POP INN – Everything from rock to far out jazz

QUESTION OF TASTE – In the classical vein

CUSTOM BUILT – Traditional, gypsy, folk and ethnic

MASTERS AND THEIR MUSIC – Hungarian composers and performers

Each of these new shows has its own editor-presenter, but they are all ready and eager to have you take a turn at the turntable. In other words, your musical requests will have a big place in our programming. In fact, the decision to introduce the new features is based on the listener demand for more diversified and in-depth request shows. As a result, we shall have these four shows combining opinions on musical events, history, current and future trends, requests and questions. Each are in an individual musical idiom.

gineers sink all their savings in setting up one of the new small enterprises [Ah, capitalism!] and March 4-5, "Energy Ranks with Exports"--government decides to give energy-saving projects the same advantageous credit facilities as export-boosting investments. (From March 28, all R. Budapest transmissions are expected to be one hour earlier due DST)

I R A N (Bill Krause, Anoka MN) With QSL IRIB sent blatant propaganda cruder than east-bloc countries'. Offensive; doubt I'll re-listen.

J O R D A N (via Robert Clark, Phoenix AZ)

PROGRAMME CYCLE «1» JAN — FEB — MAR 1982

	17:00		18:00	:30	19:30	:30	
SAT	WHO WERE THE ONES	SPECIAL FEATURE	NEWS SUMMARY 18:00	PLAY OF THE WEEK			NEWS
SUN	LISTENERS' CHOICE			JAZZ HOUR			NEWS DESK
MON	FRENCH WAY OF LIFE	POP SESSION		SPORTS ROUND-UP	NORTH BY SEA		
TUE	INVENTIONS AND DISCOVERIES			TOP TWENTY			
WED	FRENCH POP STARS			STORY TIME	NOW MUSIC		
THU	SPECIAL FEATURE			THE ELTON JOHN STORY	WHO WERE THE ONES!		
FRI	POP SESSION			TOP TWENTY			NEWS

9.560 MHZ 31MB

I R E L A N D (Variety, via David Alpert)

IRISH CRACK DOWN ON PIRATE STATIONS

Dublin, Jan. 26.

Fines of up to $20,000 are to be imposed on radio stations operating here without a state license. This threat will be included in a new law now being drafted and will affect about 40 illegal stations throughout the country.

Some of the "pirates," among them Radio Nova and Sunshine Radio in the Dublin area, have high standards and garner substantial advertising revenue, diverting it from the government-sponsored Radio Telefis Eireann's tv and radio services. Most of the material broadcast is classified as "pop" but Radio Nova has a good news service. Despite official disapproval politicians have been taking part in programs on some of the local outlets.

Pressure from RTE recently ended the supply of promotional disks by record companies to deejays of illegal stations. This will affect the shoestring operations but not the bigger units who are angling for licenses when the new law comes into effect.

RTE has a community radio program lined up, but it needs finance and government blessing to launch it, and currently the service is around $2,000,000 in the red.

I S R A E L (see below)

Muzzling of media charged in Israel

By Marcus Eliason
Associated Press

TEL AVIV, Israel — Israel's parliament conducted an acrimonious debate yesterday on charges that Prime Minister Menachem Begin is trying to muzzle the state-financed media.

Begin's critics claimed he forced Radio Israel to withdraw a report quoting an opposition politician as saying that Defense Minister Ariel Sharon was "irresponsible and unbalanced."

The prime minister denied it, saying the radio had stopped broadcasting the story voluntarily when all he had asked for was an apology.

"I never asked that the broadcast be withdrawn," Begin told legislators in Israel's parliament, the Knesset. "It never occurred to me to ask such a thing." But the radio had insulted Sharon, he said, "and all I asked was that it express regret."

The incident was the latest round in a worsening confrontation between officialdom and Israel's state radio and television, which Begin claims are anti-government.

The radio and television are under constant official attack for their handling of domestic news and their forthright coverage of Palestinian unrest on the Israeli-occupied West Bank of the Jordan River.

Israel's four radio networks and television's two are controlled by a board of public figures traditionally dominated by representatives of the political party in power.

Although the heads of the Broadcasting Authority are hand-picked supporters of Begin's Likud bloc, radio and television generally enjoy the same freedom as networks in most Western democracies.

The Broadcasting Authority has recently suppressed a report on theater plays critical of Israeli army conduct, a documentary about a house that belonged to Palestinians and is now occupied by Jews, and an interview with a university professor who called the late Prime Minister Golda Meir "a wicked old woman."

But it allowed Israel radio on Saturday to broadcast the attack on Sharon from Haim Bar-Lev, a former military chief of staff who is now a leading member of the opposition Labor Party.

The incident came as Israel Television was facing a storm of criticism for its reporting of a police investigation of Yitzhak Modai, minister without portfolio in Begin's Cabinet.

(Lexington [KY] Herald, Jan. [?] 1982 via Loren Cox, Jr.)

L A O S (received Jan. 26 by Ralph W Perry, NJ--programs are not in English!)

- - - - -

Schedule at left covers only SW portion of longer English service; subtract 2 hours for GMT. TOP TWENTY has ALIA fly in from London the weekly top 20. The Friday repeat is without announcements so listeners may record off the air! Poor in NAm!

LAO NATIONAL RADIO

Its internal service is broadcast on the freq of 640 KHz in the medium wave band and 6.130 MHz in short wave band.

TRANSMISSION. I.	LOCAL	G.M.T.
Musics and songs	05.00	22.00
Laos under the new regime	05.30	22.30
Mong Programme (Minority language)	06.00	23.00
Army programme	06.30	23.30
Local and Foreign news	07.00	24.00
National construction	07.30	24.30
Emulation drive for--		
National development	08.00	01.00
world chronicle	08.30	01.30
TRANSMISSION II.		
Mong programme (Minority language)	10.30	03.30
Army programme	11.00	04.00
Local and Foreign news	11.30	04.30
Musics and songs	12.00	05.00
Local and Foreign news	12.30	05.30
Emulation drive for--		
National development	13.00	06.00
world chronicle	13.30	06.30
TRANSMISSION III.		
Slow reading and song	16.00	09.00
Laos under the new regime	17.00	10.00
Musics and songs	17.30	10.30
Local and Foreign news	18.00	11.00
National construction	18.30	11.30
Local and Foreign news	19.00	12.00
Mong programme(Minority language)	19.30	12.30
Army programme	20.00	13.00
Daily Weekly summary	20.30	13.30
Musics and songs	21.00	14.00
Emulation drive for--		
National development	22.00	15.00
world chronicle	22.30	15.30

L I B Y A (John Pascoe, Arlington WA) It had to happen, what with all the rhetoric passing between the US and Libya, what else could they do but start an English service? Radio Jamahiriyah supports Poland's martial law, Salvador's FMLN, and had an anti-US commentary on Jan 20 against the US "Bright Star" maneuvers. There was also a little lecture on socialist theory. That broadcast closed with the studio version of Paul McCartney & Wings "Coming Up". I wonder how Muammar Kaddafi feels about being named Hustler's Feb "Asshole of the month"?

(Rufus Jordan, Pittsburgh PA) I find it intriguing that Libya has an English broadcast (2300-2400 GMT on 11815). Reception here is fairly good; program content is rather standard, but competently produced and presented. The sheer existence of an English broadcast from this country is exciting indeed. Programming, with male and female announcers, is a mix of readings from the Qur'an, news, commentary, press reviews, rock/pop music selections and patriotic vocals. The billboard segment covers not only what will be presented during each transmission but also at what time. I believe this is a breakthrough and wonder what all of this might signify re US/Libyan relations. Trying to change its image, or is it concerned with world opinion? I hope they will at least strike a balance between insight-producing information, and propaganda. So far the scale is somewhat tipped towards the latter. But I am willing to give them time.

(Lynn Burke, Newport News VA) The Jan. 25 transmission was about what I expected. Lotsa anti-US, anti-Egypt stuff, including references to the "executed" Sadat. Also had 10-minute interview with one Ernest Smith, an oil company worker living in Libya for 10 years who said he had never been mistreated there. Also, he said he was unhappy with the plan the Libyan host said was to "enslave Libya" by the US and said if he could talk to Reagan he would say he was "childish" in his attitude toward Khadaffi.

(Max Henschen) They apparently have no definite time for the switch from Arabic to English, 2312 on Feb 2; 2308 on Feb. 7. One transmission strangely (?) ended with someone other than John Lennon singing "Jealous Guy".

L I T H U A N I A (Ed Bromley, Port Union, Nfld) Radio Vilnius has an interesting English program about Lithuanian cultural life at 2300-2327 on Thursdays, 17870. None of the other frequencies announced--15240, 15100, 9750, 7150--are audible here.

M A L T A (Ron Trotto, Kissimee FL) On Jan. 16 I heard R Mediterran from Valetta on 9670 during their only English transmission, Sat 0700-0800. MALTA CALLING starts with reading listeners letters; 0720, NEWS, 0730 a program about Malta and its people and customs; 0745 PEOPLE IN THE NEWS to 0800 sign-off. In the last program they interview a person in the news around Malta. The customs program this week was about a traditional Maltese wedding; all accompanied in between by music from Malta. The signal was good with a little interference from a Russian station on the same frequency. Fading was nominal. They asked for reception reports; they verify by QSL card or letter or both. They also send out, on request, a brochure on the island of Malta. Address: Malta Calling, Box 82, Valletta.

(Lennart Johansson, President, International Christian Radio, form letters, undated, via Christos Rigas & Kraig W Krist) We hope to establish a schedule in the near future so than on one particular night of the week you will be able to find one particular program. Right now we are playing on a first-come, first serve basis. All our English programs, 2030-2115 GMT on 95.15 [sic] MHz, 250 kW antenna [sic] are produced in Canada by Ministers and Lay Ministers. We will soon have our speakers share personal stories of themselves with you and also tell you what they are involved with here in Canada. These are the programs: ALIVE, 30 MINUTES WITH PEDER, DAVID MAINSE & FRIENDS, BIBLETIME, LIGHT IN DARKNESS, DYNAMIC LIVING, FIRST THINGS FIRST, BIBLE TEACHING PROGRAMS, GOOD MUSIC BROADCAST, and coming soon, CROSSROADS, an interesting scientific series. Hosts come from Halifax, Niagra [sic] Falls, Toronto, Oshawa, Vancouver.

M O N A C O (Edwin Southwell, UK, WDXC Contact) TWR's ['DX' program] CALL SIGN has new presenters for the English broadcast on the third Saturday of the month (as of Dec 1981). I think it contains less tips and news than it did do, and also now contains too many songs in it for a programme of 15 minutes' duration. Over the past few months they have started to run a small competition in the programme, and the questions are easy to answer. So far I have won two books (one by Cliff Richard, the other by Billy Graham) in the two competitions I have entered.

N E T H E R L A N D S A N T I L L E S (Max Henschen) Add two TWR newscasts to Feb RIB page 22: 0500 & 0600 on 9755 [and presumably 800].

N E W Z E A L A N D (Barry Hartley, Auckland) Radio New Zealand is making some alterations to the timing of the special news bulletins to the Pacific islands. Beginning Jan. 25, English still at 2200-2215, while the P.I. languages bulletins will be 0240-0300; English Mon-Sat; Pacific vernaculars Mon-Fri. gh: & I still hear P.I. languages from 0600 on 17705 & 15485, each segment introduced in English with a brief summary of the content to come; interesting how different the languages sound compared to each other. Tony King advises the RNZ sked from March 7: 15485 1800-1215 (with antenna change breaks at around 2105 & 0815); 11960 1800-2105 & 0825-1215. 17705 2115-0815. NZ CALLING back at 0315 & 1015, 1st & 3rd Mondays. Other programs above should move an hour later too. (contd, p25)

SHOWS WE LIKE

(c) Glenn Hauser 1982. This attempts to be a comprehensive schedule of SW, and some MW programming the compiler, with the assistance of readers, feels is worthwhile. Especially recommended programs are aster*sked. Frequencies are the best known for North American reception, not necessarily the only ones; some changes effective March 7 are included. Due to DST, programs from Finland and France and Budapest are expected to jump one hour earlier from March 28; maybe some Belgians too; from Kiev, Vilnius and Moscow (but not RMWS and Tashkent) from April 1; from AFRTS, CBC and US & Canadian medium-wave, one hour earlier from April 25 (by which time a new 'SWL' should be in your hands) or on whatever earlier date DST may be adopted. NZ programs are one hour earlier than shown thru February. All times and days are GMT=UTC; subtract: 3½ hours for NST, 4h AST, 5h EST, 6h CST, 7h MST, 8h PST, 9h YST, 10h AST & HST, 11h BST. Better yet, think in terms of GMT. Additions and corrections are welcome!

GMT SATURDAY

0003-0023 Nederland ESPACIO DX-ISTA 15315 6020
0004-0019 Japan TOKYO REPORT 17825 15300
0010/0025 Sofia PROGRAM PREVIEWS 11720 9700
0019-0034 Japan EDITORIAL ROUNDUP 17825 15300
0023-0038 Peking LAND & PEOPLE 11650 15120 15520
0028-0059*RCI NIGHTFALL 11850 5960 /0050 Mos-
0045-0057 Sofia DX PROGRAM 11720 9700/cow DX 9600
0110-0123 Israel MUSIC FROM 15585 11640 9815
0110- Austria VIENA MUSICAL 12015
0123-0138 Peking LAND & PEOPLE 11650 15120 15520
0130/0140 HCJB WEEK IN ECUADOR 17880 15155 9745
0130-0200*WFAA GREAT GILDERSLEEVE 570
0130-0158 Budapest HUNGARIAN HISTORY 11910 9835
0137-0145 Prague ARTS IN CZECHOSLOVAKIA 11990 7345
0140-0155 Australia WEEK IN SCIENCE 21650 17890
0144-0159*BBC SOUTH ASIA SURVEY 9410
0145-0159 BBC HARPSICHORD MUSIC 15260 7325 6175
0149-0204 Japan TOKYO REPORT 21640 21610 17825 15195
0200-0230 VOA MUSIC ON MY MIND 17860 15205 6130 5995
0203-0223 Nederland ESPACIO DX-ISTA 15315 6165
0204-0219 Japan EDITORIAL ROUNDUP as 0149
0210-0215 Cairo PORTRAIT OF EGYPT 12000 9475
0212-0225 Australia EDITORIAL OPINION 21740 17795
0223-0238 Peking LAND & PEOPLE 11650 15120
0225-0235 Cairo EGYPTIAN ACHIEVEMENTS 12000 9475
0230-0245 UNR UN-AFRICA 15240 10869=SSB 6035 15752
0240-0255 Australia THE AUSTRALIANS 2-weekly above
0250-0300 Moscow DX PROGRAM 9600
0310- Austria VIENA MUSICAL 12015
0313-0328 Portugal DX/MAILBAG 11925 6100
0323-0338 Peking LAND & PEOPLE 11650 15120 15520
0330-0359 BBC WORD IN EDGEWAYS 9410 6175 6120 5975
0335-0359 BBC WEEK & AFRICA 15360 11860 7105
0337-0345 Prague ARTS IN CZECHOSLOVAKIA 11990 7345
0339-0355 Australia THIS AUSTRALIA 17795
0400-0412 Budapest CALLING DXERS 11910 9835 9585
0403-0424 Nederland ESPACIO DX-ISTA 9590 6165
0412-0425 Australia EDITORIAL OPINION 17795 15320
0423-0438 Peking LAND & PEOPLE 11650 15120
0430-0444 BBC BACKTRACKING 9510 9410 6175 5975
0431-0458 RMWS RUSSIAN BY RADIO 9600
0440-0455 Australia PICK OF THE WEEK 17795 15320
0530-0539 BBC NEW IDEAS 15070 9510 9410 6175 5975
0530-0600 RNZ PACIFIC NEWSLETTER 17705 15485
0535-0559*AFRTS WORLD OF RELIGION 15330 11790 6030
0540-0555 Australia PROFILE 17890 17870 15160
0543-0558 Portugal DX/MAILBAG 9575 6100
0550-0600 Moscow DX PROGRAM 15240 12050 9580
0605-0700 WGN FRIDAY NIGHT HIGHLIGHT 720
0605-0730 Israel B-net LIGHT CLASSICS 17630
0630-0700 Australia WORDS & MUSIC 15115
0700-0730 VOM MALAYSIAN THEATRE 15295
0700-0800 Xandir MALTA CALLING 9670
0715-0729*BBC FROM THE WEEKLIES 9510 9410 6175
0715-0730 HCJB NATURE TRAIL 11810 9760 (Apr: 0615?)
0730-0744 BBC HARPSICHORD MUSIC 15070 9510
0731-0758 RMWS WEEK IN MUSIC 17880 15540
0735-0759 BBC WEEK & AFRICA 15105 11860
0740-0755 Australia WEEK IN SCIENCE 15115 11740 9570
0750-0800 Moscow DX PROGRAM 12050 12010 9580
0810-0825 VOM MALAYSIAN SHORT STORY 15295
0840-0855 Australia THIS AUSTRALIA 15115 11740 9570
0912-1100 Australia INTL TOP HITS 15115 5995
0930-1000 HCJB DX PARTY LINE 11925? 9745 6130
0945-1014*BBC SCIENCE IN ACTION 21660 15070 11750
1030-1059 BBC O. HENRY 21660 17790 15070 11750 9740
1035-1059*AFRTS WORLD OF RELIGION 11830 9700 6030
1040-1050 Korea FOLK TALES & PROVERBS 9570
1110-1125 Australia EDITORIAL OPINION 9580 5995
1115-1124 BBC NEW IDEAS 21710 11775 11750 9510 6195
1115-1300 Perth SENTIMENTAL JOURNEY 9610 6140
1124-1129 BBC WEEK IN WALES as 1115
1130-1159*BBC MERIDIAN 25650 21710 11775 11750 9510
1130-1200 VOA PRESS CONFERENCE USA 11715 9565
1140-1155 Australia PROFILE 9580
1200-1230 Finland COMPASS NORTH 21475 15400
1200-1300 China-2 FORN MUSIC APPR 11505 7770 9670
1212-1227 Australia PICK OF THE WEEK 9580 5995
1213-1230 Tashkent MAILBAG & PGM PVWS 11785 9540
1215-1229 Japan MORE ABOUT JAPAN 9505
1230-1259 VOA NEW YORK, NEW YORK 11715 9565
1230-1300 Singapore JAZZ TODAY 11940 5052 5010
1230-1255*Peking MUSIC FROM CHINA 9820
1235-1259 AFRTS PORTFOLIO 15430 15330 11830 9700
1240-1255*Australia AUSTRALIAN INVENTOR 9580 5995
1245-1300 Colombia MUSICA TRADICIONAL 15333 11793
1255-1310 DW SCIENCE MAGAZINE 21600
1300-1400 Perth SATURDAY NIGHT CONCERT 9610 6140
1300-1330 Finland COMPASS NORTH 21475 15400
1312-1325 Australia EDITORIAL OPINION 11705 9770
1321-1343*Switzerland 1 & 3 GRAPEVINE; 2 & 4 SW MERRY-GO-ROUND; 5 DATELINE 25780 21570 21520
1330-1345 Australia AUSTRALIA FAIR alt FAITH 6060
1331-1358 RMWS WEEK IN MUSIC 9600
1335-1359 AFRTS SPL ASSIGNMENT 15430 15330 11830 9700
1345-1414*BBC STRICTLY INSTRUMENTAL 21650 21710
1346-1400 AIR FOLK SONGS 15335 11810
1400-1427 Sweden SATURDAY FROM STOCKHOLM 21615
1400-1700 RFI COMEDIE FRANÇAISE 21645 21595 17775
1410-1420 Korea FOLK TALES & PROVERBS 9720
1410-1459 CBCNQSWS THE HOUSE 23440 11720 9625
1415-1429 BBC INSTRUMENT MAKERS 25650 21710 21660
1435-1455 India FILM SONGS 15335 11810

1435-1450 Australia BOOKS/THE AUSTLS 9710 6060
1459-1529*BBC WEEK & AFRICA 21590 17885 17870
1500-1900 WOR WHAT'S YOUR PROBLEM? 710
1510-1600 DW MUSIK HÖRER WÜNSCHEN 21560
1530-1559 VOA PRESS CONFERENCE USA 15150
1535-1545 RSA DX CORNER 25790 21535 15220
1535-1559*CBCNQSWS ROYAL CAN AIRFARCE 11720 9625
1536-1557 Switzerland see 1321 21570 17850
1537-1550 DW SATURDAY SPECIAL 21600
1607-1615 VOA WORDS & THEIR STORIES 15150
1611-1630 VOA AFRICA IN PRINT 21485 15410 26040
1611-1630 RMWS SCIENCE & ENGINEERING? 12010 11860
1630-1645 AFRTS SPECTRUM+JACK ANDERSON 15330 11830
1630-1700 VOA NEW YORK, NEW YORK 21485 15150 11865
1640-1650 Korea FOLKTALES & PROVERBS 11830 9720?
1649-1659 AFRTS SCIENCE EDITOR as 1630; 15430 9700
1705-1759*CBCNQSWS QUIRKS & QUARKS 23440 11720 9625
1714-1743*BBC WEEK & AFRICA 22930 21470 20455 17695
1735-1759 AFRTS PORTFOLIO 15430 15345 15330 11830
1807-1827 VOA WORDS+SHORT STORY 15430 15140
1807-1859 RCI CANADA WEEK+A LA CARTE 17820 15260
1817-1825 AFRTS LAW + LEARNING 15430 15345 15330
1821-1843 Switzerland see 1321 21570 17850 17830
1830-1900 VOA NEW YORK, NEW YORK 15140
1830/1959 BBC PLAY OF WEEK 22930 19455 15070 12095
1835-1859 AFRTS SPECIAL ASSIGNMENT as 1817; 11830
1900-1930 VOA LE JAZZ 21470 17855 15315 15195
1910-2000 DW MUSIK HÖRER WÜNSCHEN 21600 15355
1911-1930 VOA VOICES OF AFRICA 21485 26040 15410
1915-1929 Japan MORE ABOUT JAPAN 15325
1917-1929 AFRTS PAUL HARVEY as 1817, 1835
1930-1945 AFRTS SPECTRUM + JACK ANDERSON as above
1930-2000 VOA PRESS CONFERENCE USA 26040 21485 15410
1932-1958 RMWS WEEK IN MUSIC 17720 15455 12010 11860
1949-1959 AFRTS SCIENCE EDITOR as 1930
2007-2020 DW SATURDAY SPECIAL 17705 15150
2010-2028 Israel THIS WEEK 12025 11960 11640 9815
2030-2114*BBC AGES MAN/CAPRICORN AFRICA 15260
2115-2129 BBC 20th CENTURY FOLK 15260 15070 11750
2117-2129 AFRTS PAUL HARVEY 21570 15430 15345 15330
2125-2145 India FILM SONGS 15110 11620 9912
2130-2200 HCJB DX PARTYLINE 26020 21477½ 17790 15295
2130-2200 VOA LE JAZZ 21470 17855 15315 15195
2135-2159*RCI SWL DIGEST 17875 17820 15325 15150 11945
2135-2159 AFRTS DOCUMENTARY as 2117
2135-2158 Sofia MYTH & LEGENDS & FOLK MX 9700 9665 7115
2135-2150 Australia AUSTRALIAN INVENTOR 21650 17795
2145-2155 RSA DX CORNER 17775 11900 9585
2145-2159 BBC PEDAGOGICAL POP 15385 11820
2145/2215 Baghdad TOUR IRAQI CITIES 9745
2151-2213 Switzerland see 1321 21585 17850 17830
2209-2228*BBC FROM OWN CORRESPONDENT 15260 15070
2215-2230 Turkey LAST WEEK IN ANKARA 7215 9560
2230-2239 BBC NEW IDEAS 15260 15070 11750 9410
2230-2237 Turkey DX CORNER 7215 9560
2240-2258 Israel THIS WEEK 11960 11640 9815 7412
2300-2327 Sweden SATURDAY STOCKHOLM 11705 9695/15270
2300-2400 Colombia MUSICA FOLKLORICA 15503 15333
2310-2400 DW MUSIK HÖRER WÜNSCHEN 17895 15410 9735
2315-2329 Japan MORE ABOUT JAPAN 17755
2315-2329*BBC LETTERBOX 15260 9590 9410 7325 6175
2315-2330 Austria WUNSCHKONZERT 12015 9770 5945
2330-2345 HCJB MUSICA DEL ECUADOR 15175 (2230?)
2330-2359 AFRTS UPI ROUNDTABLE 25615 21570 15330
2330-2359*BBC MERIDIAN as 2315
2340-2355 Moscow ROUNDABOUT SOVIET UNION 12010 9610

SUNDAY

0010-0028 Israel THIS WEEK 15585 11640 9815
0010-0028 VOA THIS WEEK 17730 15205 11740 9650 5995
0013-0030 Moscow MAILBAG 9600
0030-0055 Peking MUSIC FROM CHINA 11650 15120 15520
0030-0100 VOA PRESS CONFERENCE as 0010 + 17860 6130
0030/0159 BBC PLAY OF WEEK 15260 11835 9410 7325 6175
0035-0039 AFRTS DATELINE AMERICA 25615 21570 15330
0035-0050 HCJB MUSICA DEL ECUADOR 17880 15155 9745
0045-0054 AFRTS MIKE WALLACE 25615 21570 15430 15330
0050-0115 BRT MAILBAG 11695 9870
0100-0130 KUWR WORLD OF RADIO 91.9 88.7 90.9 WY & CO
0100- WFAA LUM 'N' ABNER 570 TX & OK etc
0100- KOB THE SWINGING YEARS 770 NM & west
0100-0200 VOA WEEKEND as 0030
0110-0125 Israel POP & LAND 11640 9815 15585
0112-0125*Australia REPORT FROM ASIA 21650 17890
0130-0144 HCJB WORLD OF SCIENCE 17880 15155 9745
0130-0155 Peking MUSIC FROM CHINA 11650 15120 15520
0130-0154 WCCO+KGLO NEWSMARK last Sat 830 1300
0135-0155 Prague JOIN GEORGE 11990 7345 5930
0135-0159 WBBM NEWSMARK last Sat 780 (or 0835)
0140-0150 DW GERMAN LESSONS 15105 9545 6145 6040
0140-0155 Australia YOU ASKED FOR IT 21650 17890
0140-0155 Moscow ROUNDABOUT SOVIET UNION 9600 /95
0149-0218*Japan HELLO AMERICA 21640 21610 17825 151
0150-0213*Switz see Sat 1321 15305 11715 9725 6135
0205-0259 CBC TRANSCONTINENTAL 1550 940 920 740
0205-0259 CBC OPEN CIRCUIT 1070
0210-0225 Israel THIS WEEK 15585 11640 9815
0212-0220*Australia LETTERS TO EDITOR 21740 17795
0213-0230 Moscow MAILBAG 9600
0226-0257 Brasil MAILBAG 17830 15290 17840
0230-0257 Sweden SATURDAY FROM STOCKHOLM 9695 11705
0230-0300 WFAA GROUCHO 570 OK & TX etc
0230-0300*HCJB DX PARTY LINE 15155 9745
0230-0300*VOA NEW YORK, NEW YORK 15205 9650 6130
0230-0255 Peking MUSIC FROM CHINA 11650 15120
0235-0245 Cairo HISTORY OF MODERN EGYPT 12050 9475
0235-0255 Australia see Sat 1330 21740 17795
0235-0259 AFRTS DOCUMENTARY 21570 17765 11790 6030
0245-0255 RSA DX CORNER 15325 11900 9580
0245-0300 Cairo PASSPORT AFROASIAN MX 12000 9475
0245-0300 Moscow FOLK MUSIC 9600
0300-0310 Cairo STAMP COLLECTORS' CLUB 12000 9475
0305-0335 TIFC MEN MANNERS & MUSIC 5055
0305-0359 CBC ANTHOLOGY 1550 1070 940 920 740
0305-0359 CBC TRANSCONTINENTAL 990 540
0306-0330 WCBS NEWSMARK last Sat 880
0310-0400 DW MUSIK HÖRER WÜNSCHEN 9735 6085 6075
0315-0329*BBC FROM OWN CORRESPONDENT 9410 7325 6175
0330-0355*Peking MUSIC FROM CHINA 11650 15120 15520
0330-0359 AFRTS COMMUNIQUE 21570 17765 11790 6030
0330-0430 KYXI CLASSIC RADIO HOUR 1520 OR & WA
0335-0355 Prague JOIN GEORGE 11990 7345 5930
0340-0355*Australia AUSTRALIAN INVENTOR 17795
0340-0355 Moscow ROUNDABOUT SOVIET UNION 9600
0400- Cuba CONCIERTO DEL SABADO 9550 6060
0400-0430 WRNO RUSSIAN RELIGION 6155
0405-0459 CBC ANTHOLOGY 990 540
0412-0425*Australia REPORT FROM ASIA 17795 15320

0430-0444 BBC MARCH & WALTZ 9510 9410 7325 6175
0430-0459 AFRTS UPI ROUNDTABLE 17765 15330 6030
0430-0455 Peking MUSIC FROM CHINA 11650 15120
0435-0458*Switzerland see Sat 1321 11715 9725
0440-0455 Moscow ROUNDABOUT SOVIET UNION 12050 9580
0504-1000 WOR JOE FRANKLIN'S MEMORY LANE 710
0508-0559 CBL BEST OF RADIO NOON 740
0513-0530 Moscow MAILBAG 15240 12050 12010 9580
0515-0529*BBC LETTERBOX 15070 9410 9510 6175 5975
0522-0528 KIRO SCIENCE EDITOR 710 WA & OR & BC
0530-0559 KIRO EUROPEAN PERSPECTIVE 710 ""
0535-0559 AFRTS REPORTERS' ROUNDUP as 0430 + 11790
0540-0550 DW GERMAN LESSONS 9690 9545 6185 5960
0540-0555*Australia BODY PROGRAM 17890 17870 15160
0545-0559*BBC LETTER FROM AMERICA as 0515
0545-0600 Moscow FOLK MUSIC as 0513
0600-0615 HCJB WORLD OF SCIENCE 11915 9745 6095
0612-0628 Australia SPECTRUM (2-wkly) 17795 21650
0621-0629 AFRTS MIKE WALLACE 17765 11790 6030
0630-0659 AFRTS SOURCE REPORT as above
0630-0700 HCJB DX PARTY LINE 11915 9745 6095
0630-0659 BBC JAZZ FOR ASKING 15070 9510 9410 6175
0630-0700 Australia SHOWBAND 15115
0640-0655 Moscow ROUNDABOUT SOVIET UNION 12050 9580
0705-0730 VOA AFRICAN POP MUSIC 6125
0712-0725*Australia REPORT FROM ASIA 15115 11740
0713-0730 Moscow MAILBAG 12050 9580
0715-0829*BBC FROM OWN CORRESPONDENT 9510 6175
0722-0730 RMWS DX PROGRAM 17880 15540
0735-0750 Australia YOU ASKED FOR IT 15115 9570
0745-0800 Moscow FOLK MUSIC 12050 9580
0800+ WBZ OLDTIME RADIO 1030
0810-0825 Australia SPECTRUM (2-wkly) 15115 11740
0815-0859 BBC PLEASURE'S YOURS 15070 11955 9640 9510
0830-0859 AFRTS COMMUNIQUE 9242½ 9970
0835-0855 Australia see Sat 1330 15115 11740 9570
0835-0859 WBBM NEWSMARK 780 (last Sat if not 0135)
0845-0900 FEBC THIS IS THE PHILIPPINES 11890
0900- Guyana SUNDAY SONGTIME 5950
0900-0927*New Zealand GOON SHOW 15485 11960
0915-0929 HCJB WORLD OF SCIENCE 11925 9745 6130
1015-1029 BBC 20th CENTURY FOLK 21660 17790 15070
1035-1059 AFRTS REPORTERS' ROUNDUP 11830 9700 6030
1100-1130 SLBC RADIO MONITORS INTL 17850 15120 11835
1115-1129*BBC LETTER FROM AMERICA 21710 9610 9510
1115-1130 VOA NEW HORIZONS 11715 9565
1115/1250 Pyongyang MUSIC & MORNING CALM 9977
1130-1158*Perth MY MUSIC 9610 6140
1130-1159 AFRTS SOURCE REPORT 11830 9700 6030
1130/1259 BBC PLAY OF WEEK 25650 21710 11750 9510
1140-1155*Australia THE BODY PROGRAM 9580 5995
1200- Colombia PANORAMA MUSICA NACIONAL 11793
1200-1230 Norway THIS WEEK 25730 25615 21730
1200-1300 Perth PLAYBREAK or LECTURE 9610 6140
1210-1229 Japan PROGRAM PREVIEWS & DX 9505
1210-1227 Israel MOSAIC 21760 21495 17612
1212-1225*Australia REPORT FROM ASIA 9580 5995
1230-1245 Singapore VISITORS NOTEBOOK 11940 5052
1231-1249*Austria LETTER & SW PANORAMA 21655
1235-1259*AFRTS PERSPECTIVE-1 15430 15330 11830 9700
1240-1255 Australia YOU ASKED FOR IT 9580 5995
1240-1255 Peking LETTERBOX 9820
1300-1330 Singapore DRAMA 11940 5052 5010
1300-1425*Finland SUNDAY BEST 21475 15400
1304-1334*KNUS WORLD OF RADIO 710 CO & NM & WY & SD
1307-1328 VOA NEW PRODUCTS+CRITICS CHOICE 9565
1310-1320 CBCNQSWS VOICE OF PIONEER 12130 9625 6065
1320-1343*Switz 1 BALANCESHEET, 2 ROUNDABOUT, 3 SUPPLEMENT, 4 JAZZ, 5 REPEAT 25780 21570 & 20
1322-1330 RMWS DX PROGRAM 17810 12010 11840 5900
1325-1359 Israel B-net HEBREW SONGS 17630
1330-1344 BBC SHORT STORY 25650 21710 15070 11750
1330-1359 Australia SHOWBAND 6060
1330-1359*CBCNQSWS THE FOOD SHOW 12130 9625 6065
1330-1400 VOA STUDIO ONE 9565 11715
1330-1500 CKLW SUNDAY, SUNDAY 800
1330-1358 Papua New Guinea CLASSICAL CONCERT 4890
1332-1358 RMWS MUSIC @ YOUR REQUEST as 1322
1335-1359*AFRTS PERSPECTIVE-2 15430 15330 11830 9700
1346-1400 India FILM SONGS 15335 11810
1400-1428 Sweden MAILBAG 21615
1400-1430 Norway THIS WEEK 25730 25615 21725
1400-1430 Singapore FEATURES 11940 5052 5010
1405-1659*CBC SUNDAY MORNING 17820 11955 11720 9625
1419-1454 CFRB FOCUS 6070 1010
1430-1445 Indonesia MAILBAG 11789
1430-1445 RSA WORLD AROUND US 25790 21535 15220
1430-1458 BBC COMEDY SERIES 25650 21710 15070 11750
1435-1450 Australia WEEK IN SCIENCE 9710 6060
1435-1459 AFRTS SPEAKING OF EVERYTHING as 1335
1459-1529*BBC AFRICAN PERSPECTIVE 26490 21590 20455
1500-1530 Singapore ARTS ALIVE 11940 5052 5010
1500-1900 WOR WHAT'S YOUR PROBLEM? 710
1507-1521 DW MAN & ENVIRONMENT 21600
1512-1555 Perth CLASSICAL CONCERT 9610 6140
1515-1559 BBC CONCERT HALL 21710 21660 17830 15260
1521-1542 DW ARTS 80 21600
1535-1558 Switzerland see 1320 21570 17850
1535-1559 AFRTS WORLD NEWS THIS WEEK as 1435
1540-1555 Australia PICK OF WEEK 17795 11705 9710
1542-1548*DW PROGRAM PREVIEWS 21600
1600-1615 Korea WEEK IN REVIEW 11830 9720
1600-1630 Norway THIS WEEK 25730 21725 17840
1611-1630 RMWS CULTURE & ARTS 12010 11860
1611-1630 VOA VOICES OF AFRICA 26040 15410 15150
1612-1627 Australia SPECTRUM (2-weekly) 17795 11705
1615-1634*BBC FROM OWN CORRESPONDENT 21710 17830 1526
1630-1700 VOA STUDIO ONE 26040 21485 15445 15410
1635-1659 AFRTS LISTEN CLOSELY 15430 15330 11830 9700
1640-1655 Korea LISTENERS CORNER 11830 9720
1645-1659*BBC LETTER FROM AMERICA 21710 17830 15260
1707-1715 VOA NEW PRODUCTS 15150
1709-1738*BBC MERIDIAN 21710 17830 15260 15070 11750
1715-1730 VOA CRITIC'S CHOICE 15150
1715-1730 RFI PO BOX 9516 21620 21580 21515 17860
1715-1744*BBC AFRICAN PERSPECTIVE 21470 19455 17695
1730-1744 Pakistan THIS WEEK 11670 9870 9420
1730-1800 VOA STUDIO ONE 15150
1735-1759*AFRTS PERSPECTIVE-1 15345 15330 11830 9700
1743-1759 Cuba DANZONES 17750 11760 11725
1800-1830 Norway THIS WEEK 21700 17840 15170
1805-1820*Austria SHORTWAVE PANORAMA 15560
1807-1859 RCI BONSOIR AFRICA 17820 15260
1820-1843 Switzerland see 1320 21570 17850 17830
1830-1900*VOA MUSIC TIME AFRICA 26040 21485 15410
1830-1959 CBCNQSWS THE ENTERTAINERS 23440 11720 9625
1830-1859 BBC DOCUMENTARIES 22930 19455 15070
1835-1859*AFRTS PERSPECTIVE-2 15430 15345 15330 11830

1900- SETI ham net (first) 14280=USB
1905-1959 Israel B-net NOSTALGIC SONGS 17630
1906-1959*RCI MAILBAG+SWL DIGEST 11905 17875 15325
1910-1928 Japan PROGRAM PREVIEWS+DX 15325
1911-1930 VOA AFRICA IN PRINT 26040 21485 15410
1912-1928 VOA NEW HORIZONS 15140
1922-1930 RMWS DX PROGRAM 17720 15455 12010 11860
1930-1945 Belgium DX PROGRAM 15570
1930-2000 VOA ISSUES IN NEWS 26040 21485 15410
1935-1959 AFRTS SPEAKING OF EVERYTHING 15430 15330
1945-2015 DW ARTS 80+TALKING POINT 15150 17705
1945-1959 HCJB WORLD OF SCIENCE 21477½ 26020 17790
2000-2030 Norway THIS WEEK 11935 11895 11850
2010-2028 Israel CALLING LISTENERS+DX 11640 9815
2015-2029*BBC LETTERBOX 15260 15070 12095
2030-2120 Neth HAPPY STATION 21685 17695 17605 15220
2033-2048 Cuba DANZONES 17750 11725
2035-2055 Cuba FROM THE LAND OF MUSIC 11950
2035-2059 AFRTS WORLD NEWS THIS WEEK 15430 15345
2035-2100 VOA RHYTHMES D'AFRIQUE 21470 15315 15195
2035-2100 Moscow UK MAILBAG 7390 12010
2105-2158 CBCNQSWS DRAMA 23440 11720 9625
2108-2113 VOA NEW PRODUCTS 21485 15410 15140 17785
2110-2130 Vietnam MAILBAG+MUSIC BOX 15010 10040
2112-2127 Australia SPECTRUM 2-weekly 21650
2113-2128*VOA CRITIC'S CHOICE 26040 21485 15410 9760
2115-2135 India various features 15110 11620 9912
2115-2159 BBC PLEASURE'S YOURS 15260 15070 12095
2130-2200 VOA STUDIO ONE 26040 21485 15410
2135-2158 Sofia CULTURAL LIFE (last Sun) 9700 9665
2135-2159 AFRTS LISTEN CLOSELY 21570 15430 15330
2150-2213 Switzerland see 1320 21585 17850 17830
2200-2230 WINB LATIN MASS 15185
2200-2230 Norway THIS WEEK 11850 9610 9590
2209-2238*BBC SCIENCE IN ACTION 15260 15070 12095
2209-2244 BBC CALLING FALKLANDS 12040 9915
2211-2230 RMWS CULTURE & ARTS 17720 15455 11860
2215-2300 VOA CONCERT HALL 21660 21485 15415
2230/2400 Mexico MEXICAN HOUR 15430 17765 11770
2300-2315 Grenada WEEKEND REVIEW 15045
2300-2327 Sweden MAILBAG 11705 9695/15270
2304-2353 RCI THE HOUSE 11850 5960
2305-2329 WSM MEET THE PRESS 650
2310-2325 Sofia DX PROGRAM 11720 9700
2310-2328 Japan PROGRAM PREVIEWS+DX 17755
2310-2329 Vilnius LITHUANIAN MUSIC 17870 7150
2313-2330 Cuba DANZONES 11760 6060
2315-2329*BBC LETTER FROM AMERICA 9590 9410 7325
2330-2359*BBC STRICTLY INSTRUMENTAL as above
2330-2359*AFRTS HEAR & NOW/2nd SUNDAY 25615 21570
2331-2359 WSM HEAR & NOW/2nd SUNDAY 650
2345-2400 Moscow REQUEST INTERVIEW 2-weekly 9610

M O N D A Y

0000-0030 Norway THIS WEEK 11870 6030
0000-0100 Colombia ZARZUELA & OPERETA 15503 15333
0006-0020 WCKY WORLD NEWS THIS WEEK 1530
0010-0023*Israel CALLING LISTENERS+DX 11640 9815
0013-0030 Moscow MAILBAG 9600
0015-0030 VOA CRITIC'S CHOICE 17730 15205 9650 5995
0015-0034 Japan PROGRAM PREVIEWS+DX 17825 15300
0030-0054 WCKY FACE THE NATION 1530
0030-0100 VOA ISSUES IN NEWS 17860 11740 6130 5995
0035-0039 AFRTS DATELINE AMERICA #2 21570 25615
0040-0055 Peking LETTERBOX 11650 15120 15520
0045-0054 AFRTS MIKE WALLACE 25615 21570 15330
0045-0058 Sofia DX PROGRAM 11720 9700
0045-0055 Spain DX PROGRAM 11880 9630
0049-0058 Kiev UKRAINIAN MUSIC 17870 15100 11790
0100-0115 Belgium DX CORNER 11695 9870
0100-0144*BBC AGES OF MAN/CAPRICORN AFRICA 9410
0105-0128*RCI SWL DIGEST 11850 5960
0107-0130 VOA NEW PRODUCTS+HORIZONS as 0015, 0030
0110-0123 Israel SUNDAYSCENE+INTERFAITH 11640 9815
0130-0200 VOA SPOTLIGHT as 0107
0130-0150 Australia CONCERT HALL 21680 21650 17725
0130-0200 WWL JAZZ CLUB 870
0130-0258 Budapest MUSIC 17710 11910 9835 9585
0131-0156*Austria LETTER+PROFILE+POSTBOX 9770 5945
0135-0150 DW MAILBOX (first Sun) 15105 9545 6145
0135-0159 AFRTS FACE THE NATION 25615 21570 6030
0140-0155 Peking LETTERBOX 11650 15120 15520
0145-0155 Spain DX PROGRAM 11880 9630
0145-0158 Moscow REQUEST INTERVIEW 2-weekly 9600
0145-0159 BBC SHORT STORY 15260 7325 6175 5975
0149-0159 Japan MUSIC TIME 21640 21610 17825 15195
0150-0213*Switz see Sun 1320 15305 11715 9725 6135
0200-0219*Japan PROGRAM PREVIEWS + DX as 0149
0200-0230 Norway THIS WEEK 11870 9610 6030
0200-0257*Brazil SUNDAY SPECIAL 17830 15290
0200- XEW CONCIERTO 900 540
0205-0229 WHO MEET THE PRESS 1040
0205-0259 CBC OPEN CIRCUIT 1550 940 920 740
0205-0259 CBA TRANSCONTINENTAL 1070
0207-0223*WPTF WORLD OF RADIO 680 NC & south
0210-0228 RCI MAILBAG 11940 11845 9755 9535 5960
0210-0223*Israel CALLING LISTNERS+DX 11640 9815
0212-0227 Australia FOUR CORNERS 21740 17795
0213-0230 Moscow MAILBAG 9600
0215-0229 BBC 20th century FOLK 7325 6175 6120 5975
0230-0244 AFRTS WORLD THIS WEEK 21570 11790 6030
0230-0259 WPTF HEAR & NOW/2nd SUNDAY 680
0230-0257 Sweden MAILBAG 11705 9695 17840
0230-0259 BBC A MAN OF PLEASURE 9410 7325 6175 5975
0230-0300 VOA STUDIO ONE 17730 15205 9650 6130 5995
0230-0300 Belize SASQUATCH 3285 834
0230-0300 Colombia COMPOSITORES COLOMBIANOS 15333
0230-0300 WHO VOICE OF SOUTHEAST ASIANS 1040
0232-0258 WGN OLDTIME RADIO 720
0235-0245 Cairo THIS IS ISLAM 12000 9475
0235-0250 Italy FILM MUSIC 11800 9575
0239-0244 Australia AUSTRALIAN PERSPECTIVE 21740
0240-0255 Peking LISTENERS LETTERBOX 11650 15120
0300-0330 Austria VOLKMUSIK 9770 5945
0305-0359 WGST PERSPECTIVE 1 & 2 (Georgia)
0305-0359 CBC OPEN CIRCUIT 990 540
0308-0328*Budapest FEATURES 17710 11910 9835 9585
0310-0328 RCI MAILBAG 11940 11845 11770 9535 5960
0315-0329 BBC INSTRUMENT MAKERS 9410 7325 6175
0315-0335*RNZ NZ CALLING (1,3) 17705 15485
0315-0400 VOA CONCERT HALL 17860 15205 9650 6130
0330/0359*Australia SPECTRUM 2-weekly 17795
0330-0359*CBCNQSWS COMEDY 9625 6195
0330-0359 BBC ANYTHING GOES 9410 6175 6120 5975
0330-0400 Mexico THIS WEEK 15430 17765 11770
0331-0356*Austria LETTER+PROFILE+POSTBOX 9770 5945
0335-0359 AFRTS MEET THE PRESS 21570 11790 6030
0340-0355 Peking LETTERBOX 11650 15120 15520

0345-0359 Moscow REQUEST INTERVIEW 2-weekly 9600
0400-0430 Norway THIS WEEK 11935 11870 11850
0400-0428*Budapest HUNGARIAN HISTORY 11910 17710
0400/0510 Mexico LA HORA DE 15430 1570 900 730 540
0405-0429 WRVA MEET THE PRESS 1140
0406-0428*RCI SWL DIGEST 11845 11770 5960
0410-0428 Bucharest CULTURAL SURVEY 11940 9570
0411-0430 RMWS CULTURE & ARTS 9600
0430-0450 Australia CONCERT HALL 17795 15320
0430-0459 WCAU COLLEGE BOWL 1210
0430-0500 WFAA RADIO CLASSIC 570 TX & OK etc
0430-0459 AFRTS HEAR & NOW/2nd SUNDAY 11790 6030
0431-0455 WOW WORLD NEWS THIS WEEK 590 Nebraska+
0431-0450*Austria LETTER+SHORTWAVE PANORAMA 12015
0435-0458 Switzerland see Sun 1320 11715 9725
0440-0450 Cuba PHILATELIC CORNER 11760
0440-0455 Peking LETTERBOX 11650 15120
0445-0450*BBC NOTES FROM OBSERVER 9510 9410 6175
0445-0458 Moscow REQUEST INTERVIEW 2-weekly 12050
0445-0457 Sofia DX PROGRAM 7115
0500-0600 WOR HOOKED ON BOOKS 710
0503-0527 WOW SPEAKING OF EVERYTHING 590
0505-0600 WBT? PRE-ROCK MUSIC 1110
0506-0530 KGGF THIS WEEK W/BRINKLEY 690 KS, OK etc
0513-0530 Moscow MAILBAG 12050 9580
0530-0554 WOW PERSPECTIVE-2 590
0530-0557 Austria MELODIE DER HEIMAT 12015
0530-0620 Netherlands HAPPY STATION 9715 6165
0535-0550 DW MAILBOX (first Sun) 9565 5960
0535-0559 AFRTS WEEK WITH BRINKLEY 11790 6030
0535-0559 WCKY SEARCH FOR MENTAL HEALTH 1530
0600-0630 Norway THIS WEEK 9590 15175
0600-0624 WBT SPEAKING OF EVERYTHING 1110 NC+
0600-1000 WOR NIGHT TALK 710
0605-0629 WMAQ MEET THE PRESS 670
0610-0700 Malaysia MUSIC 15295
0621-0629 AFRTS MIKE WALLACE 6030 11790
0622-0630 WBBM SCIENCE ED & DATELINE AMERICA 780
0624-0648 WBT WEEK WITH BRINKLEY 1110
0629- WMAQ LAW & CONTROVERSY 670
0630-0659 BBC MUSICIAN AT LARGE 15070 9510 6175
0635-0659 AFRTS FACE THE NATION 6030 11790
0645-0658 Moscow REQUEST INTERVIEW 2-weekly 9580
0700-1200 KSL THE SWINGING YEARS 1160
0705-0800 Malaysia MUSIC 15295
0711-0728 RMWS ROUNDABOUT SOVIET UNION 17880
0730-0750 Australia CONCERT HALL 15115 11740 9570
0745-0759 BBC SHORT STORY 15070 11955 9510
0815-0829 BBC LONDON BACH 15070 11955 9510
0835-0859 AFRTS MEET THE PRESS 9242½ 9970
0915-0920*BBC NOTES FROM OBSERVER 15070 11750 9740
0930-0959 HCJB DX PARTY LINE 11925 9745 6130
0945-1014 BBC WORD IN EDGEWAYS 11750 17790 15070
1015-1035*RNZ NZ CALLING (1,3) 15485 11960
1015-1029 BBC INSTRUMENT MAKERS 17790 15070 11750
1030-1059 BBC COMEDY SERIES 21660 17790 15070 9740
1033-1059 Israel B-net HEBREW SONGS 17630
1035-1058 AFRTS WEEK W/BRINKLEY 11805 9700 6030
1040-1050 Korea INSIDE NORTH KOREA 9570
1115-1129 BBC BACKTRACKING 21710 11775 9510 6195
1130-1159*BBC REITH LECTURES as above + 25650
1210-1229 Finland VOICES OF FINLAND 21475 15400
1210-1230 Tashkent SOVIET MUSLIMS 11785 9540
1210-1230 Israel YOU'RE ON THE AIR 21760 21495
1215-1229 Japan ONE IN A HUNDRED MILLION 9505
1215-1244 BBC ANIMAL, VEGETABLE, MINERAL as 1130
1234-1257*Austria PROFILE+POST BOX 21655
1300-1327*Perth JUST A MINUTE 9610 6140
1300-1330 Singapore THAT'S SHOWBIZ 11940 5052 5010
1310-1329 Finland VOICES OF FINLAND 15400 21475
1311-1328 RMWS ROUNDABOUT SOVIET UNION 11840 5900
1330-1350 Australia CONCERT HALL 11705 9770 6060
1330-1359 Perth BBC DOCUMENTARIES 9610 6140
1330- Israel B-net HEBREW SONGS 17630
1345-1414*BBC DOCUMENTARIES 25650 21710 21470 15070
1410-1420 Korea INSIDE NORTH KOREA 9720
1413-1428 Sweden MUSIC FROM SWEDEN/STAMPS 21615
1415-1430*Perth JOHN HINDS ON FILMS 9610 6140
1415-1427*CBCNQSWS FREYGOOD ON SHORTWAVE 9625 11720
1430-1445 Singapore INTERNATIONAL SCENE 11940 5052
1440-1500 Finland VOICES OF FINLAND 21475 15400
1615-1644 BBC MAN OF PLEASURE 21710 17830 15260
1640-1650 Korea INSIDE NORTH KOREA 11830 9720
1720- " RSA TOWNSHIP SOUNDS 21535 17780
1723-1733 BBC NEW IDEAS 21710 15070
1905-1959 Israel B-bet SABBATH SONGS 17630
1911-1928 RMWS ROUNDABOUT SOVIET UNION 11860 12010
1915-1929 Japan ONE IN A HUNDRED MILLION 15325
2010-2028 Israel SPECTRUM+LAND+PROGRAMS 11640 9815
2100-2130 WCWP WORLD OF RADIO 88.1 FM LI NY
2115-2130 India FAITHFULLY YOURS/DX 15110 11620
2130-2159*HCJB DX PARTYLINE 26020 21477½ 17790 15295
2240-2258 Israel LIVING HERE+THIS LAND 9815 11640
2314-2328 Sweden MUSIC FROM/STAMPS 11705 9695/15270
2315-2329 Japan ONE IN A HUNDRED MILLION 17755 15195
2330-2359 BBC ANIMAL VEGETABLE MINERAL 11910 9590

T U E S D A Y

0010-0028 Israel THIS LAND+SPECTRUM+PROGRAMS 11640
0013-0030 Moscow LETTERS+PGM PREVIEW 9600
0019-0034 Japan ONE IN HUNDRED MILLION 17825 15300
0030-0114 BBC RADIO THEATRE 11835 9410 7325 6175
0110-0123 Israel LIVING HERE+THIS LAND 11640 9815
0130-0150 Australia ARTS NEWS 21650 21680 17890
0130-0200*WFAA FIBBER McGEE & MOLLY 570 TX OK etc
0205-0220 Japan ONE IN HUNDRED MILLION 21640 21610
0210-0215 Cairo EGYPTIAN PROVERBS 12000 9475
0210-0225 Israel THIS LAND+SPECTRUM+PGMS 9815 15585
0213-0230 Moscow LETTERS+PGM PREVIEW 9600
0230-0300 Barquisimeto LATIN MUSIC 4990
0230-0300*HCJB DX PARTYLINE 15155 9745
0239-0245 Australia INDUSTRIAL DESIGN 21740 17795
0243-0257 Sweden MUSIC/STAMPS 11705 9695 17840
0250-0300 Cairo GLORY OF EGYPT 12000 9475
0300-0315 Cairo BETWEEN CAIRO & WASHINGTON as above
0300-0330 Austria MEIN PLATTENTELLER 9770 5945
0330-0400 WFAA THE SHADOW 570 TX OK etc
0410-0430 Mozambique MAILBAG 4855 3265
0430-0444 BBC HARPSICHORD MUSIC 9510 9410 6175 5975
0430-0450 Australia ARTS NEWS 17795 15320
0505-0530 Austria BLASMUSIK EINST & JETZT 12015
0513-0530 Moscow LETTERS+PGM PREVIEW 12050 9580
0630-0700*HCJB DX PARTYLINE 11915 9745 6095
0630-0700 Cuba CANCIONERO LATINOAMERICANO 1160
0700-0730 HCJB QUIZ TIME 11900 9745 6130
0713-0730 Moscow LETTERS+PGM PREVIEWS 12050 9580
0730-0750 Australia ARTS NEWS 15115 11740 9570
0731-0758 RMWS JAZZ SHOW 17880

0830-0859*BBC REITH LECTURES 15070 9640 9510 7150
0845-0914 New Zealand BRAINS TRUST 11960 15485
0945-1014*BBC DISCOVERY 17790 15070 11750 9740
1030-1059 BBC MUSICIAN AT LARGE 21660 + above
1115-1124*BBC LETTER FROM LONDON 21710 11775 9510
1124-1129 BBC SCOTLAND THIS WEEK 21710 11750 9510
1131-1158 RMWS RUSSIAN BY RADIO 9600 12010
1135-1150 RVA EXPLORING PHILIPPINES 9605 11770
1210-1230 Finland AIRMAIL+NOTEBOOK 21475 15400
1215-1244 BBC MUSICAL MEMORIES 25650 21710 9510
1235/1245 Australia INDUSTRIAL DESIGN 9580 5995
1310-1330 Finland AIR MAIL+NOTEBOOK 21475 15400
1330-1350 Australia ARTS NEWS 11705 9770 6060
1331-1358 RMWS JAZZ SHOW 11840 5900
1413-1427*Sweden CALLING DXERS 21615
1430-1459 BBC O. HENRY 25650 21710 11750 9740
1440-1458 Finland AIR MAIL+NOTEBOOK 21475 15400
1630-1644 BBC BLUEPRINT AFRICA 22930 21470 20455
1709-1738*BBC MERIDIAN 21710 15070 22930 20455
1730-1744 BBC BLUEPRINT AFRICA 22930 21470 19455
1739-1744 BBC SCOTLAND THIS WEEK as 1709
1830-1859 BBC NATURE+FARMING 22930 20455 19455 15070
1905-1959 Israel B-net CANTORIAL MUSIC 17630
2010-2030 Israel POPSOUND+PERSONSPEAK 11640 9815
2045-2114 BBC MAN OF PLEASURE 15260 15070 12095
2049-2119 Netherlands SW FEEDBACK 21685 17695 17605
2115-2125 India various features 15110 11620 9912
2115-2144 BBC A WORD IN EDGEWAYS 15260 15070 12095
2130-2159 HCJB QUIZ TIME 21477½ 26020 17790 15295
2131-2158 RMWS RUSSIAN BY RADIO 21530 12010 9685
2145-2159 BBC SHORT STORY 15260 15070 12095 9410
2224-2229 BBC SCOTLAND THIS WEEK 15420 + above
2240-2256 Israel MOSAIC 11640 9815 7412
2255-2320 Italy INVITO AL CLASSICO 11800 9575
2313-2327*Sweden CALLING DXERS 11705 9695/15270
2315- Austria SCHLAGERREMINISZENZEN 12015 9770
2315-2329 BBC BACKTRACKING 15420 9510 9410 7325
2330-2345 HCJB WORLD OF SCIENCE 26020 15175
2330-2359*BBC MERIDIAN 15420 15260 9590 9410 7325

W E D N E S D A Y

0004-0019 Japan MORE ON JAPAN 17825 15300
0010-0028 Israel POPSOUND+PERSONSPEAK 11640 9815
0030-0100 Austria MUSIK PROGRAMM 12015 9770 5945
0045-0100 Moscow MUSIC & MUSICIANS 9600
0055-0115 Belgium MAILBAG 11695 9870
0110-0125 Israel MOSAIC 15585 11640 9815
0130-0158*Budapest HUNGARIAN HISTORY 17710 9835
0130-0200 WFAA GROUCHO 570 TX, OK etc
0145-0159 BBC REPORT ON RELIGION 15260 7325 6175
0145-0200 Belize BELIZEAN VOICES 3285 834
0149-0204 Japan MORE ON JAPAN 21640 21610 17825
0210-0225 Israel POPSOUND+PERSONSPEAK 11640 9815
0210-0228 Budapest ARTS FEATURES 17710 11910 9585
0215-0229 BBC KING OF INSTRUMENTS 7325 6175 5975
0230-0259*BBC REITH LECTURES 9410 7325 6175 5975
0230-0300 Austria MUSIK PROGRAMM 12015
0235-0245 Cairo EGYPTIAN ARTS & LIT 12000 9475
0243-0257*Sweden CALLING DXERS 9695 11705 17840
0245-0300 Moscow MUSIC & MUSICIANS 9600
0245-0305 Italy FIRMAMENTO MUSICALE 11800 9575
0250-0300 Cairo HISTORY OF CAIRO STREETS as 0235
0251-0321 Netherlands SW FEEDBACK 9590 6165
0300-0315 Cairo MEET EGYPTIAN SCIENTISTS as 0250
0310-0328 Budapest ARTS FEATURES 11910 9835 9585
0330-0359*BBC DISCOVERY 9410 6175 6120 5975
0400-0412 Budapest CALLING DXERS 11910 9835 9585
0410-0430 Bucharest ROMANIA TODAY & TOMORROW 9570
0505-0535 Austria ORGELMUSIK 12015
0530-0544 AFRTS SCIENCE EDITOR 15330 11790 6030
0530-0544 BBC THE LONDON BACH 9510 9410 6175 5975
0540-0554 RNZ LETTER FROM AMERICA 17705 15485
0545-0600 Moscow MUSIC & MUSICIANS 12050 9580
0551-0621 Netherlands SHORTWAVE FEEDBACK 9715 6165
0630-0659*BBC STRICTLY INSTRUMENTAL 11955 9510 6175
0700-0735 Noumea HIT FOLK LOCAL JOCELYN 11710 7170
0730-0739*BBC LETTER FROM LONDON 15070 11955 9510
0730-0800 Progreso Cuba SELECCIONES MUSICALES 790
0745-0759 BBC REPORT ON RELIGION 15070 11955 9510
0745-0800 Moscow MUSIC & MUSICIANS 12050 9580
0815-0829 BBC KING OF INSTRUMENTS 15070 11955 9510
0830-0859 BBC ANIMAL VEGETABLE MINERAL as above
0915-0929 HCJB MUSICA DEL ECUADOR 11925 9745 6130
1030-1044 AFRTS SCIENCE EDITOR 11830 9700 6030
1030-1057*CBL I'M SORRY I'LL READ THAT AGAIN 740
1030-1059 BBC MAN OF PLEASURE 21660 17790 15070 9740
1115-1129*BBC LISTENING POST 21710 11775 11750 9510
1130-1159*BBC MERIDIAN as above + 25650
1145-1155 RSA SCIENCE WORLD 25790 21535 15220
1210-1228 Finland NORTHERN LIGHTS+ON TOWN 21475
1210/1229 Tashkent LIFE IN VILLAGE 11785 9540
1215-1230 VOA SPACE & MAN 9565 11715
1215-1244 BBC NATURE+FARMING 25650 21710 11775 9510
1245/1255 Australia TALE OF OPEN ROAD 9580 5995
1300-1330 Perth DOCUMENTARY 9610 6140
1310-1328 Finland N LIGHTS+ON TOWN 21475 15400
1330-1414 BBC RADIO THEATRE 25650 21710 15070 11750
1415-1429 BBC REPORT ON RELIGION as above
1430-1459 BBC WORD IN EDGEWAYS as above
1440-1458 Finland N LIGHTS+ON TOWN 21475 15400
1615-1644 BBC MUSICIAN AT LARGE 21710 17830 15260
1629-1644 BBC ARTS & AFRICA 22930 21470 20455 19455
1709-1723*BBC LISTENING POST 22930 21710 19455
1724-1738 BBC KING OF INSTRUMENTS as above
1729-1744 BBC ARTS & AFRICA as 1629
1812-1827 VOA SPACE & MAN 26040 21485 15410
1905- Israel B-net HEBREW SONGS 17630
2010-2028 Israel FORUM 11640 9815
2030-2059*BBC ASSIGNMENT 15260 15070 12095 11750
2115-2129 BBC MARCHING & WALTZING as above
2125-2145 India FILM SONGS 15110 11620 9912
2130-2159 BBC JAZZ FOR ASKING as 2030
2145-2155 RSA SCIENCE WORLD 17775 11900 9585
2145/2215 Baghdad CULTURAL PROGRAMME 9745
2245-2257 Austria BOLETIN DX 12015 11665
2315-2325 Sofia DX PROGRAM 11720 9700
2315-2329 BBC INSTRUMENT MAKERS 15420 9590 9410

T H U R S D A Y

0010-0028 Israel FORUM 15585 11640 9815
0015-0030 VOA SPACE & MAN 17730 15205 11740 5995
0030-0044*BBC LISTENING POST 11835 9410 7325 6175
0045-0055 Sofia DX PROGRAM 11720 9700
0045-0114 BBC COMEDY SERIES 11835 9410 7325 6175
0130-0150 Australia JAZZ AUSTRALIA 21680 21650
0130-0200 WFAA LUM 'N' ABNER 570 TX, OK etc
0200-0230 WFAA HENRY ALDRITCH 570 TX, OK etc
0210-0223 Israel FORUM 15585 11640 9815
0213-0230 Moscow MAILBAG 9600

0215-0230 Bucharest ROMANIAN MUSICIANS 9570 5990
0230-0259*BBC ASSIGNMENT 9410 7325 6175 6120 5975
0230-0244 HCJB PROGRAM NOTES 15155 9745
0235-0245 Cairo PIONEERS OF CIVILISATION 12000 9475
0240-0305 Italy INVITO AL CIASSICO 11800 9575
0245-0255 RSA SCIENCE WORLD 15325 11900 9580
0245-0300 HCJB MUSICA DEL ECUADOR 15155 9745
0310-0328 Portugal CULTURE & ARTS 11925 6100
0315-0327 Austria BOLETIN DX 12015
0330-0359 Belize PHILIP MARLOWE 3285 834
0330-0359 WFAA SUSPENSE 570 TX, OK etc
0330-0359*BBC MY WORD! 9410 6175 6120 5975
0345-0359 HCJB WORLD OF SCIENCE 15155 9745
0400-0430 FEBC MEN, MANNERS & MUSIC 15435
0430-0450 Australia JAZZ AUSTRALIA 17795 15320
0445-0455 Sofia DX PROGRAM 7115
0505-0530 Austria BELIEBTE MELODIEN 12015
0513-0530 Moscow MAILBAG 12050 9580
0530-0544 BBC 20th CENTURY FOLK 9510 9410 6175
0535-0559 AFRTS CAPITOL CLOAKROOM 6030 11790
0543-0558 Portugal CULTURE & ARTS 9765 6100
0630-0659 BBC NATURE+FARMING 15070 11955 9510 6175
0630-0700 VOM MAL/INDO POPSONGS 15295
0713-0730 Moscow MAILBAG 12050 9580
0730-0744 BBC MARCHING & WALTZING 15070 9510 7150
0730-0750 Australia JAZZ AUSTRALIA 15115 11740 9570
0731-0758 RMWS FOLK BOX 17880
0751-0822*Netherlands MEDIA NETWORK 9770 9715
0851-0922*Netherlands MEDIA NETWORK 9715
1030-1057*BBC MY WORD! 21660 17790 15070 11750 9740
1030-1058*CBL GOON SHOW 740
1035-1059 AFRTS CAPITOL CLOAKROOM 11830 9700 9590
1130-1159*BBC ASSIGNMENT 25650 21710 11775 9510
1215-1229 Japan SCIENCE & INDUSTRY JOURNAL 9505
1215-1230 Israel STUDIO THREE 21760 21495 17612
1225-1255*Peking CULTURE IN CHINA 9820
1238-1244 Australia CSIRO NEWSFILE 9580 5995
1303-1313 RSA DX CORNER 25790 21535 15220
1330-1350 Australia JAZZ AUSTRALIA 11705 9770 6060
1331-1358 RMWS FOLK BOX 11840 5900
1337/1350 RSA SCIENCE WORLD 25790 21535 15220
1345-1429 BBC PLEASURE'S YOURS 25650 21710 15070
1415-1500 Perth CIASSICAL CONCERT 9610 6140
1430-1459*BBC DISCOVERY 25650 21710 21470 11750
1449-1519*Netherlands MEDIANETWORK 21480 15560 11740
1615-1644*BBC ASSIGNMENT 21710 17830 15260 15070
1709-1738*BBC MERIDIAN as above + 22930 20455 19455
1730-1740 Pakistan PAKISTAN TODAY 11672 9870 9422
1739-1744 BBC WAVEGUIDE 21710 15070 22930 20455
1830-1859 BBC ANIMAL VEGETABLE MINERAL 22930 19455
1905-1959 Israel B-net SEPHARDIC SONGS 17630
1915-1929 Japan SCIENCE & INDUSTRY JOURNAL 15325
1931-1958 RMWS FOLK BOX 11860 11840 12010
2012-2027 Israel STUDIO THREE 15585 11640 9815
2030-2057 Kuwait HANCOCK'S HALFHOUR 11675
2049-2119*Netherlands MEDIANETWORK 21685 17695 17605
2115-2119 BBC ULSTER NEWSLETTER 15260 15070 12095
2115-2130 India CULTURAL SURVEY 15110 11620 9912
2120-2129*BBC IN THE MEANTIME 15260 15070 12095
2130-2158 India CIASSICAL MUSIC 15110 11620 9912
2242-2257 Israel TIME OUT 15585 11640 9815 7412
2300-2323 Neth MUNDO COMUNICAÇOES 17695 15315
2300-2330 Vilnius LITHUANIAN CULTURE 17870 7150
2300-2400 Mexico MEXICAN HOUR 15430 17765 11770
2315-2329 Japan SCIENCE & INDUSTRY JOURNAL 17755
2330-2359*BBC MERIDIAN 15420 15260 9590 9410 7325

F R I D A Y

0000-0030*Grenada MY MUSIC 15045
0010-0025 Israel STUDIO THREE 15585 11640 9815
0015-0035 Moscow SCIENCE & ENGINEERING 9600
0025-0055*Peking CULTURE IN CHINA 11650 15120 1552C
0030-0059*BBC DOCUMENTARIES 11835 9410 7325 6175
0110-0125 Israel TIME OUT 11640 9815 15585
0125-0155*Peking CULTURE IN CHINA 11650 15120 15520
0130-0200 WFAA DUFFY'S TAVERN 570 TX, OK etc
0145-0149 BBC ULSTER NEWSLETTER 15260 7325 6175
0150-0159*BBC IN THE MEANTIME 15260 7325 6175 5975
0200-0229 HCJB QUIZ TIME 15155 9745
0210-0223*Israel STUDIO THREE 15585 11640 9815
0210-0228*Budapest WEEKLY REPORTS 17710 11910 9835
0223/0244 Bucharest SKYLARK 9570 5990
0225-0255*Peking CULTURE IN CHINA 11650 15120
0230-0300 WFAA NIGHTBEAT 570 TX, OK etc
0245-0310 Cairo EGYPTIAN MUSIC 12000 9475
0240/0250 Australia WALKABOUT 21740 17795
0245- Greece FOLK MUSIC 11730 9865 9515
0251-0322*Netherlands MEDIA NETWORK 9590 6165
0300-0315 Cairo WOMAN'S MAGAZINE 12000 9475
0300-0330 Australia CALLING ANTARCTICA 17750
0300-0330 Austria OPERETTENKONZERT 9770 5945
0305-0334 RNZ JUST A MINUTE 17705 15485
0310-0328 Budapest WEEKLY REPORTS 17710 11910 9835
0325-0355 Peking CULTURE IN CHINA 11650 15120 15520
0330-0400 Belize CARIBBEAN MAGAZINE 3285 834
0425-0455 Peking CULTURE IN CHINA 11650 15120
0430-0439*BBC LETTER FROM LONDON 9510 9410 6175
0439-0444 BBC WAVEGUIDE 9510 9410 6175 5975
0505-0530 Austria KONZERT AUS ÖSTERREICH 12015
0515-0535 Moscow SCIENCE & ENGINEERING 12050 9580
0530-0544 BBC KING OF INSTRUMENTS 9510 9410 6175
0530-0557 Austria OPERETTENMELODIEN 12015
0530-0544 AFRTS MEET AUTHOR/NEWSMAKER 6030 11790
0551-0622*Netherlands MEDIA NETWORK 9715 6165
0630-0659 BBC MUSICAL MEMORIES 15070 9510 9410 6175
0630-0700 HCJB QUIZ TIME 11915 9745 6095
0700-0714 HCJB NATURE TRAIL 11925 9745 6130
0711-0730 RMWS SCIENCE & ENGINEERING 17880
0730-0744 BBC BACKTRACKING 15070 11955 9510 9410
0731-0758 RMWS MUSIC & MUSICIANS 17880
0800- KTWR DATELINE GUAM & THE WORLD 11840
0830-0859 BBC COMEDY SERIES 15070 11955 9640 9510
1000-1029 HCJB QUIZ TIME 11925 9745 6130
1010-1024 RNZ BBC WORLD REPORT 11960 15485
1030-1044 AFRTS MEET THE AUTHOR/NEWSMAKER 6030 9590
1030-1057 CBL JUST A MINUTE 740
1115-1124*BBC IN THE MEANTIME 21710 11775 11750 9510
1124-1129 BBC ULSTER NEWSLETTER as above
1130-1159*BBC MERIDIAN 25650 21710 11775 11750 9510
1145/1155 Australia WALKABOUT 9580 5995
1210-1228 Finland FRESH+CUFF+POP 21475 15400
1215-1244 BBC JAZZ FOR ASKING as 1130
1223-1240 Peking LAND & PEOPLE 9820
1231-1258 RMWS RUSSIAN BY RADIO 9600
1240/1255*Australia LETTERS TO EDITOR 9580 5995
1310-1328 Finland FRESH+CUFF+POP 21475 15400
1311-1330 RMWS SCIENCE & ENGINEERING 11840 5900
1330-1414*BBC AGES OF MAN/CAPRICORN AFRICA 25650

1331-1358 RMWS MUSIC & MUSICIANS 11840 5900
1410-1430 Tashkent MUSLIMS SOVIET EAST 11785 9540
1415-1429*BBC LETTERBOX 25650 21710 21660 15070
1440-1500 Finland FRESH+CUFF+POP 21475 15400
1613-1628 Portugal DX/MAILBAG 15105
1615-1644*BBC SCIENCE IN ACTION 21710 17830 15260
1629-1644 BBC AFRICAN PAPERS 22930 21470 20455
1709-1737*BBC MY WORD! 21710 15070 22930 19455
1729-1744 BBC AFRICAN PAPERS 22930 21470 20455
1739-1744 BBC WEEK IN WALES 22930 21710 20455
1830-1859 BBC MUSICAL MEMORIES 22930 20455 19455
1911-1930 RMWS SCIENCE AND ENG. 12010 11860 11840
1915-1930 UNR RADIO CLUB (1st or 2nd) 15120 21710
1931-1958 RMWS MUSIC & MUSICIANS 12010 11860 11840
2000-2030 KSAC RALPH RADIO PROGRAM 580 KS etc
2015-2030 Kuwait ISLAM 11675
2030-2059*BBC REITH LECTURES 15260 15070 12095
2045-2059 Moscow ROUNDABOUT SOVIET UNION 12010
2115-2125 India TALKS 15110 11620 9912
2131-2158 RMWS RUSSIAN BY RADIO 21530 12010 9685
2135-2155 Australia THIS AUSTRALIA 21650
2135-2158 Sofia DX+FEATURE 9700 9665 7115
2145-2154*BBC LETTER FROM LONDON 15260 15070 11750
2145-2159 BBC PETROLEUM PROGRAM 15385 11820
2145-2159 HCJB MUSICA DEL ECUADOR 26020 21477½
2145/2215 Baghdad POST BAG 9745
2154-2159 BBC WAVEGUIDE 15260 15070 12095 9410
2210-2300 Israel B-net NEW RECORDS 17630 15615
2224-2229 BBC WEEK IN WALES 15260 15420 15070 9410
2240-2255 Australia PICK OF THE WEEK 21650 17795
2240-2257 Austria VIENA MUSICAL 12015 11665
2240-2257 Israel MUSIC FROM ISRAEL 15585 11640 9815
2300-2305 Sofia PROGRAM PREVIEWS 11720 9700
2303-2323 Netherlands ESPACIO DX-ISTA 11730 6020
2315-2329*BBC FROM WEEKLIES 15420 11910 9590 9410
2325-2350 Italy CONCIERTO PER L'EUROPA 11800 9575
2330-2345 HCJB MUSICA DEL ECUADOR 15175
2330- Austria MUSIK PROGRAMM 12015 9770 5945
2330-2359 BBC O. HENRY 15420 11910 9590 9410 7325

M U L T I - D A Y

0000-0001 VOA PROGRAM PVW 17730 15205 11740 5995
0000-0030 VOA CARIBBEAN REPORT 17860 6130
0000-0300 WHAS METZ HERE 840 Tu-Su
0005-0030 SFR SPANISH KALEIDOSCOPE 11880 9630
0012-0027 Australia FOUR CORNERS 21740 M-F
0015-0029 BBC RADIO NEWSREEL 11910 9590 9410 7325
0030-0100 VOA MAGAZINE SHOW 17730 6130 5995 Tu-Sa
0035-0045 AFRTS RATHER & REASONER 25615 21570 Tu-Sa
0050-0055 VOA SCIENCE DIGEST 21460 M-F
0100-0200 Zinica REVOLUTION NOW 6121 Tu-Sa
0100-0200 VOA REPORT TO AMERICAS 15205 5995 Tu-Sa
0105-0130 SFR SPANISH KALEIDOSCOPE 11880 9630
0105-0300 WOR WHAT'S YOUR PROBLEM? 710 Tu-Sa
0115-0144 BBC OUTLOOK 9410 7325 6175 5975 Tu-Sa
0125-0130 HCJB LATIN AMERICAN NEWS 15155 9745 T-S
0125/0135 Moscow POZNER DAILY TALK 9600
0125/0135 DW GERMANY TODAY 15105 9565 6145 Tu-Sa
0130-0135 AFRTS REST OF THE STORY 25615 21570 Tu-S
0145-0159 BBC WORLD TODAY 9410 Tu-F
0145-0200 DW MUSIK 15410 9735 6075 Tu-Su
0145-0200 Cuba CANCIONERO LATINOAMERICANO 6060 T-S
0150-0213 Switz DATELINE 15305 11715 9725 6135 Tu-Sa
0204-0259 CBCNQSWS AS IT HAPPENS 9625 6195 Tu-Sa
0209-0215 BBC BRITISH PRESS REVIEW 15260 9410 7325
0212-0225 Australia FOUR CORNERS 21740 17795 M-F
0215-0229 BBC RADIO NEWSREEL 9410 Tu-Sa
0220-0235 CBA BOOKTIME 1070 Tu-Sa
0230-0245 AFRTS WORLD TONITE 21570 11790 6030 Tu-Sa
0230-0300 VOA DATELINE 17730 15205 11740 6130 Tu-Sa
0230-0300 UAE Radio QUR'AN 15320 11755 9595
0235-0359 CBA MOSTLY MUSIC 1070 Tu-Sa
0240/0255 Australia various features 21740 M-F
0249-0324 Netherlands REPORT 9590 6165 Tu/Th/Sa
0300-0345 WHAS SPECTRUM 840 Tu-Sa
0300-0430 Colombia CONCIERTO 15503 15333 Tu-Sa
0306-0357 KSL/WSB CBS MYSTERY 1160 750 Tu-Sa
0307-0358 WOAI CBS MYSTERY THEATER 1200 Tu-Sa
0309-0315 BBC NEWS ABOUT BRITAIN 9410 7325 6175
0315-0329 BBC WORLD TODAY 9410 7325 6120 5975 Tu-Sa
0315-0400 VOA JAZZ MUSIC USA 15205 9650 5995 Tu-Sa
0320-0335 CBC BOOKTIME 1550 940 740 Tu-Sa
0325/0335 Moscow POZNER DAILY TALK 9600
0335-0459 CBC MOSTLY MUSIC 1550 940 920 740 Tu-Sa
0340-0400 DW MUSIK 9735 6145 6085 6075 Tu-Sa
0342-0357 UAE Radio ARAB CULTURE 15320 11755 9595
0345-0359 Yerevan MUSIC & NEWS 17870 15100
0358-0359 Australia JACKO 17795
0400-0429 BBC NEWSDESK 9410 6175 6120 5975
0403-0500 RNZ MUSIC FOR PLEASURE 17705 15485 M-F
0407-0459 CBA ECLECTIC CIRCUS 1070 Tu-Sa
0420-0435 CBC BOOKTIME 990 540 Tu-Sa
0430-0500 Cuba FORMALMENTE INFORMAL 9525 6060
0430-1000 WJR NIGHTFLIGHT 760
0435-0445 AFRTS RATHER & REASONER 11790 6030 Tu-Sa
0435-0559 CBC MOSTLY MUSIC 990 540 Tu-Sa
0435-0458 Switzerland DATELINE 11715 9725 Tu-Sa
0454-0459 BBC REFLECTIONS 9510 9410 6175 5975
0500-0530 Cuba FORMALMENTE INFORMAL 640
0505- WGN GREAT MUSIC FROM CHICAGO 720
0505-0555 WHAS CBS MYSTERY THEATER 840 Tu-Sa
0507-0557 KNX/KGHL/KFBK CBS MYST 1070 790 1530 Tu-Sa
0507-0559 CBC ECLECTIC CIRCUS 1550 940 740 Tu-Sa
0507-0800 MBS LARRY KING 1510 1500 1210 1180 1000
0509-0529 BBC 24 HOURS 9510 9410 6175 5975 M-F
0510-0559 KOB CBS MYSTERY THEATER 770 Tu-Sa
0520-0535 CBC BOOKTIME 1010 740 Tu-Sa
0525-0535 DW GERMANY TODAY 9565 5960 Tu-Sa
0530-0555 SFR SPANISH KALEIDOSCOPE 11880 9630
0530-0620 KOA CBS MYSTERY THEATER 850 Tu-Sa
0545-0559 BBC WORLD TODAY 15070 9510 9410 Tu-Sa
0545-0555 DW MUSIK 9735 6145 6085 Tu-Su
0551-0622 Netherlands REPORT 9715 6165 Tu/Th/Sa
0555-0600 HCJB LATIN AMERICAN NEWS 11915 6095 Tu-Sa
0600-0630 BBC NEWSDESK 15070 9510 9410 6175 5975
0607-0657 KTWO/KIRO CBS MYSTERY 1030 710 Tu-Sa
0607-0659 CBC ECLECTIC CIRCUS 990 Tu-Sa 540
0610-0630 RNZ CHECKPOINT 17705 15485 M-F
0620-0635 CBC BOOKTIME 690 6160 Tu-Sa
0620-0650 KOA OLDTIME RADIO 850 Tu-Sa
0625/0635 Moscow POZNER DAILY TALK 12050 9580
0635- *AFRTS PROGRAM NOTES 11790 6030 Tu-Sa
0635-0759 CBC MOSTLY MUSIC 690 6160 Tu-Sa
0658-0659 Australia JACKO 15115 11740 9570
0709-0729 BBC 24 HOURS 15070 11955 9510 6175 M-F
0707-0759 CBC ECLECTIC CIRCUS 1010 740 Tu-Sa
0807-0859 CBC ECLECTIC CIRCUS 690 6160 Tu-Sa

(continued on page 34)

N I C A R A G U A (Radio Moscow, domestic svc in Russian, 9 Sept 81, trans. in Worldwide Report: Telecommunications Policy, Research & Development No. 183, via R Horvitz) Cooperation in the field of radio broadcasting between the Soviet Union and Nicaragua is envisaged by an agreement signed in Moscow today. It includes the exchange of radio material on the lives of the peoples of both countries, programs on popular art and musical recordings. The agreement was signed by the chairman of USSR State Committee for Television and Radio Broadcasting, Lapin, and the head of the propaganda department of the Sandinista National Liberation Front (Frederico López).

[non] (Steve Reinstein, Miramar FL) Radio Quince de Septiembre, 5565, 0330-0406 sign-off on Feb. 10th: At 0330 went into "Radio Quince de Septiembre presenta COMUNICÁNDONOS CON LA COSTA ATLANTICA--en su propia lengua". Miskito at 0333-0336 & 0340-0342. English segment 0344-0346 with details of "the crimes of the Sandinista organization". Gave names of four preachers captured by the "Sandinista Marxist-Leninist organization". One man, named John Wilson, was purported to be a Bishop in Nicaragua. "We will never surrender to the Marxists". Back to Spanish at 0346 with ID as "...la voz oficial de la Fuerza Democrática Nicaragüense". Machine gun fire and "Presentamos el pueblo denuncia ???". Announcer seemed to give names of international terrorists from the PLO and SWAPO who were working for the FSLN against the Miskito people in Nicaragua. Anthem to 0406 sign-off. gh: Eng also one day 1218

N I G E R I A (John M. Wilkins, Wheat Ridge CO) There is a bill in the Nigerian legislature called the "FRCN Amendment Bill," which proposes to limit Radio Nigeria Kaduna and several other FRCN transmitters to MW only. A 15-man delegation from the RNK Listener's Club in Niger is in the country to lobby against the bill. Opponents say the bill is aimed at "abolishing the zonal and linguistic structure of the Corp." and that RNK has been educating 90% of the Nigerian residents outside the country, as well as Hausa-speaking people of neighboring W. African countries. Source: R. Nigeria Kaduna, 4770 kHz, tape of Jan. 22, 1982, recorded by Gene Paradis (Maine) and sent to me.

N O R W A Y (Rolf Løvstrøm, Oslo) When the new transmitter site at Karmøy goes on the air in late spring/early summer, the daily transmissions will be reduced from 90 to 60 minutes each, with separate morning and evening programs for each target area. There will be no increase in English programming, though, which is mainly carried out on a semi-voluntary basis by the Norwegian staff. The spokesman of "The Council of Norway's Information Abroad" (a public body made up of representatives of government and private bodies) a couple of years ago privately told me the council believed SW radio had virtually no impact and only catered to the interests of DXers and QSL hunters. P O L A N D

(Thomas W Netter, AP, Boston Globe & Columbia [SC] The State, via Henry L DuRant) A ham radio operator in Britain said a clandestine broadcast from Poland Friday night claimed Wałęsa was seriously ill in a Warsaw jail and that Solidarity was arming to battle the government..." (Hank DuRant:) I almost missed this item; it could be anything from an "illegal" ham communication to an actual clandestine broadcast heard either by a ham or an SWL (who was lucky not to be identified as a CBer). Subsequently I reviewed the [London] Times and the Standard for the days following and found no mention of such an incident. WHY? (1) neither paper was interested? (2) it is commonplace? (3) Papers omitted it on purpose? (4) it didn't happen? (5) it happened, but at some time other than Friday night? Then Feb FRENDX arrived, and as frequently happens, LISTENERS NOTEBOOK sheds more light on the subject [p 21]:John Campbell had reported on MEDIA NETWORK hams on 'unusual frequencies' prior to Jan 29. Subject matter and intended recipients would be interesting, but I imagine details will be hard to come by.

(UPI Amsterdam, Jan 13 via David L Alpert) A Dutch amateur SW radio operator said today contact has been broken with Polish ham operators and they may have been arrested "or worse." Anton Oort, a hospital employee and amateur radio

Polish radio show makes 'scapegoats' of Jews

A movement is underway in Poland to make Jews the "scapegoats" in the current crisis, the American Jewish Committee reports. Committee officials said that a recent hour-long broadcast on Warsaw radio featured a man identified as a political scientist who claims that Jews and FreeMasons are responsible for misleading the Polish people and that persons of Jewish origin have turned Solidarity, the worker's movement, into "an anti-national body." In addition, the committee reports, the Grunwald Union, which has status as a cultural and social body in Poland, has begun circulating anti-Semitic literature. Both Solidarity and the communist leadership of Poland have denounced such activity and disclaim any anti-Semitic bias, but the American committee has asked the Polish government to make "an immediate public disassociation" from the Dec. 15 broadcast.

(Below: Philadelphia Inquirer, Jan. 6 via Joe Hanlon) (Right: St Petersburg Times, Dec. 26, via Rusty Serenberg)

Broadcast official on trial

The following article is based on uncensored reports reaching the United States from Warsaw.

Associated Press

Poland's military government, trying to mitigate public anger over trials of Solidarity activists, began the trial yesterday of a former high Communist Party official it describes as a notorious playboy and example of corruption among the ousted party elite.

With a blaze of publicity including television coverage, Maciej Szczepanski, former head of the state Radio and Television Committee, sat in a dock in a Warsaw courtroom with four close aides.

The aides and Szczepanski, who was close to Edward Gierek, the disgraced former Polish Communist Party leader, are charged with mismanagement, accepting bribes from foreign companies, misappropriation of state funds and falsification of official documents.

Szczepanski was dismissed from his broadcasting post in August 1980 amid the wave of labor unrest that gave birth to Solidarity. The broadcasting trade union alleged at that time that his assests included seven cars, two planes, a helicopter, a $2 million yacht and a 16-room house. But there was no mention of these allegations in reports on the trial.

Ironically, the trials of workers accused of staging strikes in violation of martial law were taking place just down the corridor as Szczepanski and his former aides were led to the courtroom. Unlike the workers, who were handcuffed, Szczepanski's arms were free as he entered the court the reports said.

operator, said he had spent an average of 12 hours a day beginning Dec 13--the day martial law was declared in Poland--listening for messages from colleagues in Poland. But his last contact with two groups of hams, one in Łódź and the other in Poznań, was broken abruptly Sunday. "I was told that the hams in Łódź had been arrested and that two of them had been wounded," Oort said. "The Polish ham then suddenly broke off his message and repeatedly sent the SOS signal in Morse. This was suddenly replaced by a continuous tone for about 2 minutes, and then contact was broken off. I can only assume that my Polish colleague was either shot or beaten unconscious, leaving his hand resting on the Morse key." Oort claimed to have received reports of mistreatment in Polish prisons--internees sprayed with cold water and forced to stand outside in the sub-zero temperatures, for instance. "My Polish contacts told me that about 5000 miners were involved in the occupation of the Katowice mines and that 328 died and 74 were executed," Oort said. "In Lublin, a tank drove right through a bus, killing 58 people." Similar reports reached the West earlier from underground sources, but were not confirmed independently and have been contradicted by martial law authorities.

S P A I N (G Sharman, Hollywood CA) REE on 15125 at 0100, reported in Feb RIB p 26, was not a unique incident. I got the same thing the last week in November.

T A I W A N (Loren Cox, Jr., Corbin KY) Well/ I finally have a reason to listen to WYFR their program exchange with VOFC (which I first heard about on MEDIA NET/, 1/8 tho' I noticed - I thought rather strangely - chinese on 5985 when I tuned thru it last weekend) [Jan 2-3] now making available some beautiful chinois programming that I have previously been able to hear only sporadically for relatively brief periods during the year. TNX WYFR.

Unfortunately, VOFC (like Radio Korea) inflicts upon us pseudowestern pop music sound junk but can't expect to have everything just exactly as I w'd like it.

(James E McDonald, Jr., Ardmore PA) Thanks to SWL DIGEST Jan. 11 I heard that WYFR was relaying the Voice of Free China's English to North America on 5985 [at 0300-0400] So I checked it out Jan. 12. I was surprised at what I heard. I like their music and they even have Chinese language lessons like R Peking, but their news bulletins and commentaries do have propaganda in them. Their signal was strong, but I know the Florida relay had something to do with that. I am not here to compare R Peking with the VOFC but I'd rather have 900,000,000 Chinese on the mainland as our friends than as our enemies.

gh: Taibei address heard lately as 24038, as Munz [Feb RIB p 27] originally had it before I amended it upon hearing them say 24-38. George also received their free monthly booklet of propaganda, but not in October bothering to give a program sked. You'd think this development would receive press play, but my SHORT WAVES column story was made available to wire services, and they weren't interested. The only press reports about it I've yet seen are by Stephen G Esrati in the Cleveland Plain Dealer, Jan. 10 (via G Brown, Columbus) and a similar one by him in Toronto Globe & Mail, Jan. 7 (via Sandy Fairbairn)

T U R K E Y (gh) Somewhat incomplete story appeared as at right in blue propaganda folio NewSpot Jan. 22; they seem to think US is about the size of European Turkey. 'WHSF' is apparently WHFS, 102.3 FM, Bethesda MD. Is "Ozturk" a pirate? Where? Or more likely a program on some stn.

(Mike Burden, WDXC Contact) VOT's new English schedule for Jan thru March 1982: Daily NEWS & REVIEW OF THE TURKISH PRESS followed by: Mon FROM THE DIARY OF A TOURIST (a Turk travelling thru Europe--illuminating insight into the Turkish view of the European society and way of life) and THE WORLD WE LIVE IN (different topics about Turkey); Tue ALBUM OF TURKEY, alternating fortnightly with ART & CULTURE; also weekly 40 DAYS, 40 NIGHTS (recalling old Ottoman festivities); Wed LETTERBOX and OLDIES BUT GOODIES (as before); Thu THE CHANGING TURKEY IN THE CHANGING WORLD (sweeping social changes during past 50 years); Fri TURKISH ANECDOTES (folk humour and sagacity) and WOMEN IN ANATOLIA (throughout history); Sat LAST WEEK IN ANKARA and DX CORNER (as before); Sun HOW A FOREIGNER SEES TURKEY (i.e. a Swiss tourist) and FACTS & ASSERTIONS (the Armenian issue). My verdict: by listening to VOT one gets to know the country and its people and not just to know about them. (I hope you can appreciate the difference.) This more than compensates for the programmes sounding at times not as professional in broadcasting technique as other stations. More authentic-sounding too since staff are nationals, not foreigners.

Second Turkish Private Radio in the United States

Washington.- A second private radio station will soon go into operation in the United States, apart from WHSF which broadcasts Turkish programmes between 19.00-20.00 local time every day on FM-102.3.

The new radio is named "OZTURK" derived from the names of Dr. Yalcin Turkkan and Sabiha Ozbay, founders of the station.

OZTURK will go on the air from 24 January 1982, with broadcasts every Sunday between 20.00-21.00 hrs local time.

U K O G B A N I [BBC program info, see pp 29-31] Having just listened to the Feb 10 interview with Prof Martin and found him articulate and engaging, I think that the whole series of REITH LECTURES will be well worth listening to [Mon 1130, Tue 0830, Wed 0230, Fri 2030 thru March 26](H L DuRant SC)

U S A (gh) WRNO began testing Thu Jan 21 around 1900 on 17895; see p 35 (the full interview with Mr Costello appeared on WORLD OF RADIO and perhaps AUSTRIAN SW PANORAMA); see also Feb NASWA LN page 25.

(Anthony G Pavick, Latrobe PA) Caught a WRNO test at 2219 Jan 24 on 11890; poor modulation did not make it a treat to listen to. Also noted that only one channel of the stereo source signal was being broadcast (I recognized the Beatles tracks played less the vocals were actually the left channel of the stereo recording.) A call to WRNO at 504 889 2424 brought the promise of a QSL.

(John G O'Connell III, Easley SC) Heard WRNO Friday Feb 5 at 1801 on 17895 testing to 2000; 2100-2130 on 15355. Feb 4, Thu at 1757 heard their first broadcast on 17895: HALL OF FAME BROADCAST. The DJ and owner Mr Costello discussed the station and 3 million watt power. "Reach Out" by the Four Tops was the first tune broadcast to the world from WRNO World Wide. Calls from listeners in NC, NJ, DC, OH, ID; off at 1905.

gh: Another week of apparent near-inactivity followed, as I checked daily at 1800 on 17895 and 2000 on 15355 and most evenings after 0200 on 6155. But on Fri Feb 12 they fired up at 2030 on 15355 and ran to 2200 and then another hour on 11890 with rock, frequent IDs, asking for reports, promising special charter QSL to first 1000, and plugged heavily their $6 T-shirt. More silence. Then sometime around 0300 GMT Feb 14 WRNO started making money instead of spending it with a long string of gospel programs on 6155, first in English; then at 0400 check in Russian--I think this may have been orthodox--the music was great and the speakers sounded like Muscovites rather than evangelicals; 0501 pause for incongruous English announcement, into Maranatha Int'l Ministries in English; running late; after 0530 another Slavic language with Paris, France address; 0603 played Dvořák at half-speed, then Russian show at full speed; 0633 THE VOICE OF LIFE, a Ukranadian program from Edmonton featuring Ukrainian-gospel-C&W music! An AP story in the Feb. 2 Jackson Daily News (via Jack Jones) again mentioned ABC news every half hour and ads for American-made products and tourist attractions, none of which had yet been heard at this writing. "He already has sold $200,000 worth of early Sunday morning time--all of it religious. In addition he plans to market, over the air, records and blue jeans --WRNO Jeans with a station label on the pocket," for $30 contrasted to the $100 black-market price overseas.

gh: From clip at right we see that R Martí is still being planned. The Cuban-American National Foundation, headed by Jorge Mas, has issued a lobbying paper, "U.S. Radio Broadcasting to Cuba --Policy Implications," available for $1.00 from the Foundation at 1625 "Eye" St NW, Wash DC 20006. Tnx to Dave Walcutt for a copy of this 20 page paper which includes the gross misinformation (attributed to Business Week, Sept 21) that Cuba operates as many as five 250-kW transmitters to jam WQBA-1140. As any DX listener should know, there's nothing but a low-to-medium power carrier on 1142. AP moved a story Feb. 5 (via Alpert & Dymond) that 14 Democrat congressmen headed by Ron Dellums (CA) and Henry Reuss (WI) are circulating a letter opposing the R Martí project; the others: Mickey Leland (TX), Thomas Foglietta (PA), William Clay (MO), Donald Edwards (CA), Berkley Bedell (IA), Anthony Beilenson (CA), Fortney Stark (CA), Gus Savage (IL), George Crockett (MI), Aaron J Mitchell (MD), Wm. Gray (PA), Andrew Jacobs (IN).

(John G O'Connell III, Easley SC) Jesse Helms and Ronnie really are showing their true colours with this trash about a Radio Free Cuba (with private funding??) Do we really need our own R Tirana? Cuba isn't free and was not before. Before Castro there was the AT&T and The Mafia and many other gangsters. What will Reagan/Helms/East replace the Castro government with? Some of the Cuban Mafia pros in Miami?? The "whole actor's gang is out of touch" regime missed the boat to Mariel! [?] (Mark Schlesinger, Clute TX) Besides the 'need' for the service and Reagan's people's wish to hear themselves lambasting Castro there may be a third reason: to improve the GOP's image among the many

President Names Directors Of Cuba Broadcast Agency

United Press International

President Reagan yesterday named F. Clifton White, long a Republican Party official, to head the board of Radio Marti, which will broadcast to Cuba to counter anti-U.S.propaganda from Fidel Castro's government.

Named for the turn-of-the-century Cuban liberator Jose Marti, it is expected to get under way this year. Legislation to establish it has been introduced in the Senate and will go to the House shortly.

In addition to White, a public affairs counselor in Greenwich, Conn., who ran Sen. Barry Goldwater's unsuccessful 1964 campaign for president, Reagan named the following members to the Commission on Broadcasting to Cuba:

• William Bourne Bayer, a political editor and news commentator for WINZ radio in Miami.

• Joseph Coors, president of Coors Brewers of Golden, Colo.

• Tirso Del Junco, chairman of the California Republican Party.

• George Jacobs, former director of engineering of the U.S. Board for International Broadcasting.

• Jorge Mas, president and chief executive officer of Church and Tower of Florida, a Miami-based engineering company.

• Richard Scaife, a publishing magnate from Pittsburgh.

• Herbert Schmertz, public affairs vice president for Mobil Oil Corp.

• Former senator Richard Stone of Florida.

• Charles Z. Wick, director of the International Communication Agency.

(Washington Post, Jan. 20 via Greg Monti and Kraig W Krist; also via Bill Dymond and David L Alpert)

Cuban voters in Miami. A great campaign bonus for Republican candidates. A comment in RIB 60 touched on the multi-linguality of the Americas, and how much ignored it sometimes can be. Another case in point: the daily broadcasts of the Voice of the OAS, 45 minutes long, in Spanish only. Why no English? Presumably Americans, Canadians, Belizites [sic], Guyanans, Jamaicans, and all the other English-speaking residents want to know what the OAS has to say, too. gh: Until a few years ago La Voz de la OEA did have 15 minutes a day in English; it vanished without notice or objection.

(David L Alpert, NY) VOA program info is transmitted daily on RTTY, 7476 kHz USB, 100 wpm; probably other times and frequencies too; this one monitored here; also has hardcopy world news for USIA.

gh: This month's VOA developments: "Controversial Nicolaides Leaving Post", following staff petition calling for his ouster, but still working for ICA Director Wick; see Washington Post, Jan. 20 (via Krist & Monti), and Dallas Morning News, Jan. 23 (via Bob Shrader). VOA announced Jan. 8 that daily broadcasts in Polish had been further increased from 2½ to 7 hours(AP & UPI via Dymond & Alpert) The VOA's parent agency ICA mounted a $500,000 TV spectacular Jan. 31, "Let Poland Be Poland", filled with celebrities for a sesquihour, beaming it by satellite thruout the world, hoping it would be broadcast by foreign TV organisations. Most would not commit themselves before seeing it, and it came in for especially bad press in Britain: "Only in the US could such a vulgar spectacle be mounted," said Andrew Alexander in the London Daily Mail. Yet the show had on-camera messages from a surprising number of western heads of state. See Washington Post, Feb. 1, for Tom Shales' review. Wick got special dispensation from Congress to allow domestic public TV stations to carry it if they wished. PBS which distributed it made clear they had nothing to do with it. My local station WSJK-TV ran it a week later without advance notice, and I caught the last half hour--it looked like something out of the 50s, before camera movement and zooms were invented, lots of boring talking heads. Some felt allowing its domestic broadcast set a dangerous Big-Brother precedent. (Of course we "can't" hear the VOA inside US borders either!) [Thanks to David Alpert and Greg Monti for press reports about this]

gh: UPI reported Feb 5 (via Alpert) that the Johnson Space Center in Houston will begin short-range 24-hour Space Shuttle Mission broadcasts on 171.15 MHz during the next flight scheduled March 22-29. It's mainly for Center personnel to keep up with things but anyone with proper receiver can listen.

(Mick McLean, KUWR-FM 91.9) Good news! Thanks to the comments from listeners and more comments made during a recent survey, we are reinstating World of Radio. The powers that be have given in to the pressure, and we're ready to resume from Saturday March 6 at 7:00 pm [MT]. We hope to make many people happy with the return of this and other shows "by popular demand". Our signal is expanding, with relays in Casper WY at 88.7, Aspen CO at 90.9, and prospects for more at Glenwood Springs CO, Sheridan WY, and perhaps Torrington, Gillette and Riverton WY. It appears that many communities are interested in the "program format" which KUWR offers as opposed to the "format formats" which many NPR stations are being urged to accept. The impact of WORLD OF RADIO was surely felt.

BROADCAST SERVICES
University of Wyoming
P.O. Box 3984, University Station
Laramie, Wyoming 82071

gh: WCWP, 88.1, Brookport/Greenvale LINY has rescheduled WORLD OF RADIO again; now only Mon. 4 pm ET.

U S S R (Loren Cox, Jr., Corbin KY) (Dec. 12) Have listened to R Moscow North American service hardly at all for many years - until the other evening, that is, tuning around in the 40 m band on the FT-7. Music is heard that w'd not have been heard 25-30 years ago, but the 'news' & commentaries appear to have changed very little, being still surprisingly heavy handed. Maybe some of it is just reaction to US Adm utterances. The only think a bit new is 'calm & rational' V. Posner. Evidently Soviet commentators have been enjoying the Reagan Adm attacks on 'entitlement' & other social programs, stressing that the Soviet concept of human rights involves the right to a job & medical care & the material necessities of life - rights, they say, guaranteed by the Soviet constitution. Strange boy Stockman has been quoted as saying that no american has any inherent right to any of these things (no one is 'entitled' to anything), which, of course, is the view of Reagan's hard core constituency. Evidently this crowd is truly concerned with only one 'human right': the right to unfettered corporate & personal aggrandizement. Whereas the right that most concerns me is the right to unfettered thought & the expression of that thought - which the USSR seems not wholly prepared to provide. Too bad that the American ideal of personal & political freedom cannot effectively be combined with the Socialist ideal of a level of material well being that belongs by right to every human being. Do listen occasionally, with pleasure, to RMWS. With so much time to fill, an interesting program or feature sometimes gets on. I especially like FOLKBOX, which can provide some exciting examples of the musical traditions & culture of the Soviet nationalities.

V E N E Z U E L A (Ken MacHarg, IN) R Barquisimeto has an excellent program of Latin American music from around the continent, a good variety of music forms. I heard it Jan. 26 0230-0300 GMT on 4990. Don't know if it is nightly, but I suspect it is. Program is done live (at least the announcing part) since there are frequent time checks and IDs, along with brief commentary on the music, as to where it originates, etc. All in Spanish. Good signal until R RSA stirs up a lot of interference signing on just before the hour.

FEATURES

Southern Africa in focus

Capricorn Africa

The Tropic of Capricorn, slicing off the Southern tip of the African continent, is almost a symbolic line dividing and joining South Africa and her neighbour. The independence of Angola, Mozambique and Zimbabwe has increased the isolation of South Africa and at the same time, emphasised its economic dominance in the region. The problem of apartheid has become such a major factor in relations that many people have failed to see that this whole system, starting with its ideology, appears to be crumbling.

The French writer Alexis de Tocqueville wrote: "Experience teaches us that, generally speaking, the most perilous moment for a bad government is one when it seeks to mend its ways". This period of change in the Republic is one which is perilous for the whole region. The problem of finding a settlement in Namibia and South Africa's raids into Angola against SWAPO guerrillas, the attempts by Zimbabwe and Mozambique to become less economically dependent upon South Africa and to hasten black majority rule in that country; and the strategic importance of the Cape Sea route, all add up to a potentially dangerous situation.

In two major feature programmes this month, BBC men Benny Ammar and Greville Havenhand report from Angola, Zimbabwe, Mozambique, Namibia and South Africa on the arguments put forward by both sides, and on the fears, aspirations and intentions of the governments and people of Southern Africa.

13th, 20th 2030 rep 15th, 22nd 0100, 19th, 26th 1330

Poor Embarrassed Reptile

A study of Gilbert White and his tortoise by **Michael Bakewell** based on the letters and journals of Gilbert White.

Gilbert White was vicar of a small village in Hampshire in the 18th century and assured himself a place in posterity with his lively and informative book *'The Natural History of Selborne'* based on his observations, as an enthusiastic amateur naturalist, of the countryside surrounding his home.

His first encounter with Timothy the tortoise was in his aunt's garden in 1771 and from then on he continued to make regular notes on the tortoise's daily life.

14th 1830 rep 15th 1345, 19th 0030

A Pattern of Faith

The Bishop of Bradford, the Rt. Rev. Geoffrey Paul, continues his series of talks for the period of Lent, linking the major claims of the Christian faith and showing how, despite apparent disorder, a whole design exists which permeates and transcends life. The titles of his talks this month are: **By Whose Design?** *7th;* **An Instrument of Healing** *14th;* **The Travelling Company** *21st.*

Suns 2100 rep Mons 0545, Thurs 0145, 1115

Meridian

This month two of Britain's best-known artistic bodies, The Royal Shakespeare Company and the London Symphony Orchestra, move to a magnificent new home. It's the newly completed Barbican Centre in the City of London, the largest centre for arts and conferences of its kind in Western Europe. This move means that the London Symphony Orchestra becomes the first London orchestra to have a permanent home where it can both rehearse and give concerts in the same hall.

The Royal Shakespeare Company too are looking forward to moving their London headquarters from their present cramped quarters in the old Aldwych Theatre to the newly designed 687-seat main auditorium and the 200-seat experimental theatre, The Pit. These are the bare facts about the new Centre. The World Service arts programme *Meridian* will be there for the gala opening and in a special 30-minute report includes background detail and all the artistic excitement which make this one of the most significant cultural events in the Britain of 1982.

4th 1709 rep 2330 5th 1130

The Reith Lectures: The Two-Edged Sword

Armed force in the modern world is the theme of this series, given by **Professor Laurence Martin,** Vice-Chancellor of Newcastle University, who draws upon 25 years' experience of strategic studies.

The two-edged sword of the title is a weapon liable to harm the user as much as the intended victim. As Prof. Martin makes clear, possession of large and lethal nuclear stockpiles confronts the nations owning them with awesome problems of potential mutual annihilation.

The lectures continue this month with **Shadow over Europe:** "A major nuclear war seems more likely to arise, if it ever does, from a local conflict that gets out of hand, than as a bolt from the blue" *1st;*

Conflicts of the Third World: "As we wash our hands, we would doubtless each according to our temperament regard ourselves as leaving the Third World to stew in its own juice or as respecting the inherent dignity and independence of newly-created states. While such abstention may be possible and wise in many particular cases, however, it is not practicable as a universal rule." *8th;*

Not for the Sake of their Blue Eyes: "Perhaps the bête noire of the enthusiast for disarmament is the so-called arms race. However, we are far from certain there is any persistent phenomenon deserving that name and we certainly have a very imperfect grasp of the psychological and political mechanisms at work." *15th;*

Who's Moving the Goal Post?: "Conditioned by its ideals to feel guilty about the use of force; democratic opinion is addicted to crusades, if not against some foreign force, then against armed force itself. We badly need a more balanced approach, for only thus can we hope for the sustained and coherent policies an age of deterrents demands." *22nd*

Mons 1130 rep Tues 0830, Weds 0230, Fris 2030

Assignment

The current affairs documentary series includes an examination of how the United Nations' largest specialised agency spends its money. In 1982 the Food and Agricultural Organisation (FAO) will be spending £194 million, 40 per cent of it provided by the United States, Great Britain and West Germany.

When the scale of world hunger is considered, it does not seem a vast amount but two thirds of FAO's budget is spent on bureaucracy in Rome. Of the rest, only a third goes to Africa and a mere quarter to Asia. How the money is spent and the worries that are growing in the West are investigated.

Weds 2030 rep Thurs 0230, 1130, 1615 (ex 15th)

Because of schedule changes, this month's *London Calling* contains details of programmes up to March 26th. The remaining five days will be featured in the April edition.

The Role of the University

For a generation, the universities in Britain have been expanding. The aim has been to ensure that every young person qualified to go to university should have the opportunity to do so, and as a result of this policy there has even been a surplus of courses available in some subjects. But now the government is imposing drastic financial cuts on the universities as part of its policy to reduce public spending.

This has triggered off the most lively debate for many years about the role that universities should play in society, and the issues raised apply not just to Britain but to many other countries throughout the world.

Is the primary function of a university to train the best brains of the country in skills which are of direct social and economic value to the nation? Or is a university's real purpose more subtle and still more profound than that: to promote the spread of learning for its own sake and by that means make society more civilised? What should universities be doing or not doing? A report by John Pickford.

7th 1830 rep 8th 1345, 12th 0030

Goethe: An Impression

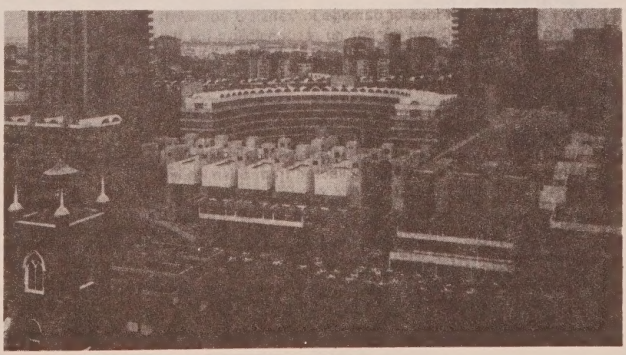
Born in 1749; world famous in his 20s as author of the sentimental best-seller *Werther;* died in March 1832 and acknowledged as Sage of Weimar and Germany's greatest writer – this was the career of Johann Wolfgang von Goethe.

The non-literary world knows him as an inspirer of music: Lieder by Schubert and Wolf, works for orchestra or voice or both on the subject of his great dramatic masterpiece, *Faust.*

To the literary, he has strong claims to be regarded as the greatest lyric poet of all time, and is certainly the world's most documented writer – his whole output was a kind of autobiography, and so many of his contemporaries noted what he said and did.

This 150th anniversary portrait is presented by Victor Price. (Also see *Concert Hall* on Music Page).

21st 1830 rep 22nd 1345, 26th 0030



***Meridian* visits the new Barbican Arts Centre in London.**

DRAMA

Her Majesty is amused

PLAY OF THE WEEK

An Evening with Queen Victoria

You are invited for a personal audience with Her Majesty (played by **Prunella Scales**) in her private sitting room at Osborne, the English country house on the Isle of Wight which she loves so much.

Of course, she is an old lady now and not as fit as she was, but as she talks about her extraordinary and fascinating life, the years seem to drop away and she can transport you back to her childhood, her coronation (while still a teenager), her passionate and devoted love for her handsome young husband and all the joys and tragedies of her private life. And there are the trappings of state and politics too. What does she really think of Lord Melbourne, of Mr Gladstone and Disraeli?

Music as well, the leading British tenor **Ian Partridge** sings some of the Queen's favourite songs ranging from Robert Burns to Gilbert and Sullivan. At the pianos (no less than three authentic 19th century instruments are featured) is scholar and concert performer **Richard Burnett.**

The programme is devised by Katrina Hendrey and was recorded on location at the beautiful Georgian manor house "Finchcocks" in Kent where she and Richard Burnett live. Director: Dickon Reed.

6th 1830 rep 7th 0030, 1130.

Random Moments in a May Garden

by James Saunders

A scrap of photograph found in an old cupboard links the past with the present. In the past, two little girls sit patiently waiting for the photographer to capture the family group on a wedding day – each one occupied with her own thoughts about her own future. In the present a middle-aged couple, with their children grown up and gone away, are moving into a new home – a home which will probably be their last.

With **Barbara Jefford** as Sophie, **Peter Jeffrey** as David, **Julie Hallam** as Anne and **Helen Worth** as Katie.

"Look, David, look at these two little girls."
"They're sweet, aren't they?"
"Sweet. And so conscious of the moment, so intent on preserving themselves. Look: how serious this one, how solemn. And the little one, leaning slightly to one side, afraid to move. But she let her eyes wander, do you see?"
"Let me see. So she did. I hadn't noticed."
"And this is what's left of them. Their future is the same as their past now. Lost. Gone. All gone."

Directed by Richard Wortley
13th 1830 rep 14th 0030, 1130

Towards the End of the Morning

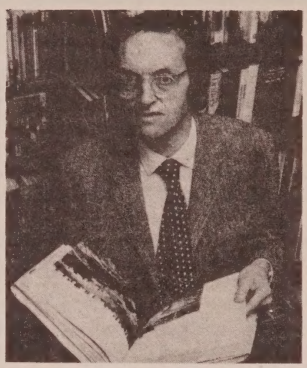
by Michael Frayn

Fleet Street! The bustling hub of England's news industry inhabited by ace reporters, razor-sharp editors and powerful press barons – or is it? Well, there is no-one better qualified than the author to tell the inside story. Before he became one of Britain's leading novelists and most successful playwrights he was a Fleet Street journalist himself.

This adaptation of his highly-acclaimed comic novel stars **Martin Jarvis** as John Dyson who dreams of fame and fortune as a TV pundit but is condemned to edit the paper's Crosswords, Anniversaries and Country Diary columns. **Rosalind Ayres** is Jannie, his long-suffering wife.

When John's big chance finally arrives it could mean an escape from the world of Old Eddy, who is permanently asleep, Reg Mounce, who is permanently drunk and Erskine Morris who is permanently pushy. But it is not as simple as it seems.

Adapted for radio by Geoffrey M. Matthews and directed by Dickon Reed.
20th 1830 rep 21st 0030, 1130



Author and humourist Michael Frayn – see Towards the End of Morning

News of the Engagement

by Arnold Bennett

"I was all that my mother had. And I had engaged myself to a girl she had never seen. I had kept her in the dark..."

Philip returns home from Christmas wondering how he is going to break the news of his impending marriage to his widowed mother.

The reader is **Gabriel Woolf.**
21st 0745 rep 22nd 0430, 1415, 23rd 1015.

The Beverley Brooch

by Frank Marcus

Freddie Purvis returns to the office the day after the Agency Founder's Day party, with the intention of doing some clearing up. But he is interrupted by Beverley who says she is only looking for her lost brooch ... With **Peter Barkworth** as Freddie, **Julia Foster** as Beverley and **Robert Henderson** as Otis Oates. Directed by John Cardy.
1st 0230 rep 1615, 2nd 2045, 3rd 1030

The Withered Arm

by Thomas Hardy

"I have one little ailment which puzzles me. It is nothing serious, but I cannot make it out."

Gertrude Lodge uncovered her left hand and arm, and their outline confronted Rhoda's gaze as the limb she had beheld and seized in her dream. Upon the pink round surface of the arm were faint marks as if produced by a rough grasp. Rhoda's eyes became riveted on the discolourations; she fancied that she discerned in them the shape of her own four fingers.

Read in three parts by **Paul Rogers.** Produced by Maurice Leitch.
Tues (from 9th) 0730 rep Weds 1945, Thurs 1015, Fris 0100

Short Story

From Dublin, capital of the Irish Republic, comes **The Ten Pence Dream** by Jean Darling. As Fiona passes a jumble sale, she sees a blue silk dress with the word Original on the label – a sight that sets her dreaming ... *7th*

Andy and Oscar is about a 12-year-old boy and his dog – both waifs and strays – who 'adopt' Charlie as their father. It is by Joseph Powers in Stavanger, Norway *14th*

G. Andrew-Ariane from Cadiz, is the author of **The Strolling Player** – a story about an entertainer's train journey in Germany *21st*

Suns 1330 rep Mons 0145, 0745, Tues 2145

RADIO THEATRE

Marginal Seat

by David Self

Richard Wardle is fighting to retain his Parliamentary seat in the approaching general election but there is stiff opposition from his rival, Keith Riley. The one thing the two candidates have in common is the extreme pressures put on them and their families during their battle for votes.

Starring **Terrence Hardiman** as Richard Wardle and **Patricia England** as his wife, Jean. Directed by Peter King.
7th 1915 rep 9th 0030, 10th 1330

Beautiful for Ever

by Jan Lieza

"I do not wish to be at all unkind or ungallant concerning Mrs. Borradaile, but how she could have been brought to believe in being made 'beautiful for ever' I cannot comprehend. She only had to consult a looking glass to see what nature had done to her."

In the months of August and September 1868 a very remarkable case was tried at the Old Bailey. It concerned Sarah Rachel Leverson – known to the world as Madame Rachel. A purveyor of diverse varieties of cosmetics, enamels, face powders and rouges, she proclaimed that she had the power of making women Beautiful for Ever.

The key prosecution witness was the unfortunate Mrs. Borradaile, a lady deceived into parting with vast sums of money by this "rejuvenator of corrugated charms".

With **Joyce Redman** as Madame Rachel and **Patricia Gallimore** as Mary Borradaile. Directed by Vanessa Whitburn
14th 1915 rep 16th 0030, 17th 1330

Canadian Gothic

by Jack M. Glass

The tragi-comic relationship between Jean, a Canadian teenager, her father, and a young Indian with whom Jean falls in love will have devastating consequences for all three of them. Gordon House directs this sensitively-written play which is the Canadian authoress's World Service radio debut. The adaptation for radio is by Garrick Hagon.
21st 1915 rep 23rd 0030, 24th 1330

30-MINUTE THEATRE

O. Henry

March sees the second half of the series of dramatised short stories by O. Henry – one of America's master story-tellers. Set around the turn of the century, the tales reflect the course of O Henry's very varied life.

The first play this month is called **The Ransom of Red Chief.** It is about two small-time crooks who decide to make some money by kidnapping the son of a local businessman. But once they have the boy in their clutches, they discover they have taken on a lot more than they bargained for *6th*

The second story, **Unofficial Opening,** also concerns a crook – but this time an expert, who decides to 'go straight' when he falls in love. However, his past is fated to shadow his newly-reformed way of life *13th*

The final play consists of two stories, **Mammon and the Archer** and **The Last Loaf.** The first is a tender love story – yet even the most innocent romance sometimes needs help from the hard-headed world of business and finance. And the second is a sad tale of a man's efforts to save a friend, which turn to tragedy *20th*

Bob Sherman is O. Henry and the series, dramatised by Max Marquis, is directed by Derek Hoddinott.
Sats 1030 rep Tues 1430, Fris 2330

MUSIC

Concert Hall

The 150th anniversary of the death of the great German romantic writer Goethe falls on March 22. The day before *Concert Hall* features two works inspired by Goethe's writings: Mendelssohn's *The First Walpurgis Night*, which is the musical setting of a poem by Goethe and an excerpt from *Damnation of Faust* by Berlioz.
Smetana: Symphonic poems, Vysehrad, Vltava and Blanik (from Ma Vlast). The Vienna Philharmonic Orchestra, conducted by Rafael Kubelik *7th*
Schumann: Piano Quintet in E flat, Op 44. **Hugo Wolf:** Italian Serenade. Artur Rubinstein (piano) and the Guarneri String Quartet *14th*
Mendelssohn: The First Walpurgis Night. Maragarita Lilowa (mezzo-soprano), Alfred Sramek (tenor), Horst Laubenthal (tenor) and Tom Krause (baritone) with the Chorus of the Vienna Singverein and the Vienna Philharmonic Orchestra, conducted by Christoph von Dohnanyi.
Berlioz: Menuet des Follets (from The Damnation of Faust). The City of Birmingham Symphony Orchestra, conducted by Louis Fremaux *21st*
Suns 1515

Strictly Instrumental

Famous musicians talk about themselves and the influences on their work with Margaret Howard of *Letterbox*. Each conversation is laced with examples of their musicianship on record, including their own favourite recordings.

The classical guitarist **John Williams** founded the successful rock group Sky with which he toured the world *Feb 27th*

Mike Westbrook is another highly original contributor to his field of music. Initially a pianist, he now plays tuba and is devoting a great deal of his time to compositions such as his *Jazz Cabaret*, a kind of modern operetta. To date, he has 16 albums to his credit *6th*

The American-born flautist **Elena Duran** now makes her home in Britain *13th*

The series ends with a cameo of the British harpsichordist **Christopher Hogwood** *20th*
Sats 1345 rep Suns 2330, Weds 0630

Twentieth Century Folk

Fred Woods concludes his series on some outstanding singer-songwriters, whose roots lie in the British folk revival of the 1960s.
Alex Glasgow (b. 1935). An under-rated but exceptional songwriter from the north east of England – a region often featured in his songs *Feb 27th*

Jeremy Taylor (b. 1935). A satirist and comedian who has frequently worked in Britain with former 'Goon' Spike Milligan, and who wrote the music for the British stage hit *Mrs Wilson's Diary 6th*

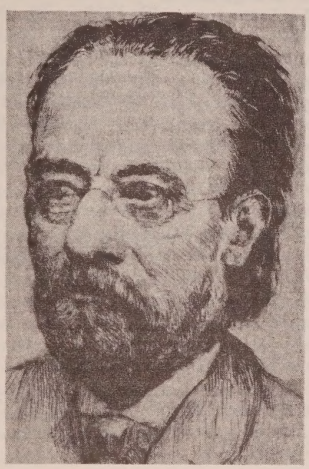
Richard Thompson (b. 1949). Played guitar and sang with Fairport Convention and the Albion Country Band before going solo *13th*

Chris Rohmann (b. 1947). An American songwriter, now permanently resident in Britain *20th*
Sats 2115 rep Suns 1015; Mons 0215, Thurs 0530

Musical Memories

The music critic **Felix Aprahamian** continues his reminiscences of London's musical life during the 1930s and recalls some of the outstanding personalities and musical performances of the period. An honorary fellow of the Royal College of Organists, he has a particular interest in French music. His reviews appear regularly in the London *Sunday Times*.
Tues 1215 rep Fris 0630, 1830

Inspired by Goethe



Two musical giants in different fields who are featued on World Service this month. Top: Friedrich Smetana (see *Concert Hall*); and John Philip Sousa (see *Marching and Waltzing*).

The Instrument Makers

Natalie Wheen visits four more makers of musical instruments, including **Christopher Monk,** who produces unusual wind instruments, and the famous English firm of piano makers, **John Broadwood and Sons,** who have been in business for over 200 years.
Sats 1415 rep Mons 0315, 1015 Weds 2315

Opera Gallery

Gwyn Morris continues his series of record programmes featuring some of the distinguished opera singers with whom he has been associated in a career that has included work with recording companies and leading opera houses.
Sats 1330 rep Suns 0530, Thurs 0815, Fris 0215

Marching and Waltzing

The great American march composer John Philip Sousa died 50 years ago this month, and to mark the occasion this series includes some stirring examples of his work.
Suns 0430 rep Tues (16th), 1630, Weds (ex 3rd, 17th) 2115, Thurs 0730

Musician at Large

Steve Race concludes his backward glance at nearly half a century as pianist, arranger, bandleader, composer, broadcaster and journalist – and listener.
Mons 0630 rep Tues 1030, Weds 1615, Fri (26th) 0230

Music for the Harpsichord

An anthology of masterworks written for this instrument – until the mid-18th century the most important of all keyboard instruments.
Sats 0145 rep 0730, Tues 0430

The Ages of Man

Nigel Douglas presents the last programme in his series exploring the ages of man as they are depicted in opera. In **Second Childishness and Mere Oblivion** he introduces operatic characters who have reached old age, and some who have even passed beyond that(!), with music by **Janacek, Verdi, Mozart, Puccini, Tchaikovsky** and **Sullivan.** The series producer is Alan Haydock.
6th 2030 rep 8th 0100, 12th 1320.

The King of Instruments

Further selections from the varied and rich repertoire of the romantic organ, played by some of the world's leading recitalists.
Weds 0215 rep 0815, 1725, Fris 0530

Extra

A Man of Pleasure

For over a century **James Boswell** (1740-1795) was chiefly remembered for his impressive biography of the 18th-century literary genius Dr Johnson. But, in the 1920s a large quantity of his unpublished work was discovered at the home of his great-grandson in Ireland including the diaries of his sojourn in London in 1762-3.

Gary Bond reads from the London Journal by Boswell, abridged in three parts by Clare Lawson Dick.

In **Part 1** Boswell arrives in London from Scotland, enjoys the delights of the town and falls in love with Louisa *8th*

Part 2 finds him falling out of love and into a sickness, brought on by an excess of venery *15th*

And in **Part 3** Boswell meets the great Dr Johnson and finally takes his leave of London *22nd*
Mons (from 8th) 0230 rep 1615, Tues 2045, Weds 1030.

My Word!

The game about words played by people whose business is words returns to BBC World Service. **Frank Muir** and **Denis Norden,** whose unlikely stories of the derivation of various well-known phrases and sayings are such a popular element of the programmes, have been with the series since its very beginning, as has producer Tony Shryane. Everyone concerned is constantly amazed at the endless richness and superabundant quirkiness of the English language ...

Joining Messrs Muir and Norden as panellists are the novelist **Antonia Fraser** and film critic **Dilys Powell**
Thurs (from 18th) 0330 rep 1030, Fris 1709

(EQUIPMENT FORUM from page 12)

blown literally out of existence by lightning--- a one million watt VLF transmitter out of action for eight months. Could a little flexible plastic wrapped around a copper wire fare any better?

(Nathan Murff, Albuquerque NM) Thanks for printing Greenwood's article on the super wire from Radio Shack. All nine local stores have been sold out since a week before I received that issue of RIB. I bought some of their brown speaker wire. Went out and tied one end to my wooden fence, ran it 45 ft up to the top of a tree, then sloped it down to a handy unused wooden fence post in the field behind my house. Ah, great DX. Well how was I to know that the local farmer was going to test drive his tractor in the middle of January. Tore down the fence, broke the tree branch and made a farmer very unhappy. Thank you, Radio Shack for not stocking any popular items.

TIMERS (Larry Magne, Penns Park PA) It seems silly that no manufacturer has yet come up with what has long been feasible: a 24-hour-format timer that includes seconds (displayed), LEDs for long life, no radio hash/interference, and programmable for a variety of times and formats. The Panasonic RF-9000 includes something close, but, alas, you have to purchase the 51-pound "portable" along with the clock.

(Robert W Skinkle, Jr., Oak Park IL) I was looking for a cheap 24-hr format LED clock and thought I might be able to make a wiring change on a 12-hr Radio Shack Micronta, such as 63-752 (at $15). The engineering dept. in Fort Worth wrote back saying they can't give modification instructions on UL listed products because they become "legally liable" (for violating UL regulations?) But they did also say the 24-hr modification was possible and suggested grounding pins 37 and 38 of the clock chip. Are there any owners of the clock willing to try this and report back? Makes me wonder about that pesty 12-hr format of the R-1000!

(Rick Lucas, Stockton CA) Why not use an el-cheapo machine to absent-tape with? Or at least exploring a station's frequency reception pattern before committing your main machine?

(Darryl Holland, Riverdale NY) To all would-be 12-6 am DXers: stop "dreaming"! Buy a cheap ($8-15) timer at Radio Shack or elsewhere, set frequencies and preamps as desired, set timer to tape recorder and go ahead and tape, say New Zealand at 4 am while sleeping! What seems to be the problem? Personal experience says it's 100% effective. Some tips: allow a 15 minute 'drag' as timer 'plug' slows timer dial down. Example: for 4 am set to go on at 3:30. Timer will usually snap on at 3:45 (that 15 minute "obstacle drag"). Some (most) recorders will auto shut off at end of tape, conserving electricity and recorder's hampered moving parts. Finally, some rigs themselves (FRG7000 for one) have timer capability and precise digital at that, too! Possibilities are endless: extension cord to timer can multiply appliance timing to 2, 3 or 4 different pre-set portable rigs, provided same number of (cheap) recorders! Yours truly is a pro at that, catching 0800, or 0900 news on 4 different frequencies. Different time needs? Multiply timers x rigs x recorders, etc. Oh yes. Don't let the fire commissioner get wind (smoke?) of this. To those who take the above advice, one final 'de rigeur':- a smoke alarm above your base of operations!

(Frank Shoemaker, Syracuse NY) Radio Shack has a new digital timer for $30. I have one and it works well, with to-the-minute on and off.

(Joel Rubin, Berkeley CA) The new Radio Shack catalog lists a $30 digital timer with a battery-powered backup circuit. Also, replacement models for the DX-40 and DX-60 at the same time.

RTTY & MORSE MINIREADER (Darryl Holland, NY) FYI, Grove Enterprises of Brasstown NC 28902 offers for $289.95 inclusive a minireader which plugs into the external speaker jack of a SW receiver and digitally reads out RTTY and Morse (RTTY 60, 67, 75, and 100 wpm, Morse 3 - 80) with auto speed adjust. I just spent my tax refund!

COMPUTER NOISE INTERFERENCE (Mike Sprague, Casper WY) Re: another hobby involving electronic media. Having recently purchased a micro-computer for home use I have noted a conflict in having both SW receivers and the computer in the same house. The disadvantages fall mostly on the SW listening side of the combination, however. The computer, when in use, seems to interfere most severely with radio reception in all bands from MW on up to UHF. The receivers however have not yet disturbed the operation of the computer. Information on remedies for this problem (counting out the suggestion to permanently unplug the computer) have been hard to find. The computer retail and service outlets have been little help as those who sell computers seem so seldom to have any cross interest in other electronic hobby equipment (some actually sounding insensitive to the situation). I should like to see if other SWLs have run into this sort of problem. The best treatment of this subject which I have seen so far is an article in Microcomputing (April 81) magazine. It concentrates on the struggle between the manufacturers of "micros" (as they are referred to by the fraternity) and the FCC. It suggested little practical in the way of reducing radio frequency interference from a machine already purchased. A discussion of methods, whys, hows, shoulds, may benefit many. There may even be those who are still perplexed by the newest irritating sound coming from the old radio's 4-inch squaker unaware of the invasion of the newest addition to the evergrowing list of home appliances which emit in the radio bands (following the act of microwave ovens and fluorescent fixtures among others). Any comments?

RADIO WEST (Ed Stone, NY) I hope they can continue--I've always been impressed with the attention to customer service and quality modifications I've read about. I'd like to think that what appears to be a high quality outfit can prosper.

gh: RADIO WEST is reportedly out of business.

(R Horvitz, RI) In RIB 60, Ed Stone wondered about computer-based audio noise filters. The Computer Sciences Dept. of Queens College (Flushing, NY) developed just such a device for the USAF last spring. Called a "Speech Enhancement Unit", it's supposed to boost the signal/noise ratio 12-14 dB in channels where noise dominates speech. A 52-page project report by Mark R. Weiss & Ernest Aschkenasy is available from NTIS for $8 on paper or $3.50 on microfiche, order number AD-A100 462/1. Parts of the report are beyond my technical grasp, but the basic outlines of the SEU are clear: A 3-kHz-wide audio channel is sampled 10,000 times/sec by a "preprocessor", converting the analog signal into a stream of 14-bit binary-code digits. This is fed into a souped-up Macro-Arithmetic Processor made by CSP, Inc. CSP designed the MAP as a high-speed number-crunching peripheral to a host computer, but it can be programmed to function autonomously, as here. The Queens team replaced 2 of the 3 original memories with larger and faster ones, and added a second array processor, operating in parallel with the first. This extra power was needed to execute the noise-reducing algorithms faster than the sampling rate--i.e., achieve real-time operation--a trick the researchers found no standard commercial minicomputer could yet perform. The digitalized sound signal goes through 3 transforms in the MAP. First, impulses (static discharges, ignition noise, etc.) are identified and deleted from the wave-form; the resulting gaps are filled with short segments of the wave-forms adjacent to the gaps, so the signal's continuity is maintained. Then, tone noises ("birdies") are identified and notched out. The third stage is where the advanced-but-still-not-perfected magic is wrought. A sub-program recognizes some frequency patterns typical of the human voice, which enables the MAP to distinguish partly between the voice and non-voice components of the wave-form, and eliminate most of the latter. A "post-processor" converts the MAP output back into analog for listening or recording. This is an experimental device, designed for easy modification and testing. The researchers say that much of what they've done with software could and should be hardwired in any production version of the SEU, to cut costs and increase performance. The next generation of number-crunchers could bring the cost down to a level affordable by the military. The generation after that might be cheap enough for mere mortals. The researchers found that the SEU worked best when fully automated, so all you'd have to do is put it on-line or bypass it. A dream machine for sure!

COMPUTER NETS (Joel Rubin, Berkeley CA) Tele-Com Digest and Human-Nets Digest (the human uses of technology) are distributed over the Arpanet and Usenet to various computer centers in the U.S. Both of these are mostly edited collections of contributed comments, like RIB. There are also edited digests for science fiction lovers, people interested in the work environment of the future, and political scientists, and unedited news networks on arms, energy, and various computer-oriented topics. I.e. you computer-mail to a central distribution point and your comments are automatically distributed to the subscribing centers.

A correction to my correction on db:

$$db = 10 \log \frac{P_1}{P_2} = 20 \log \frac{V_1}{V_2}$$ where P_2's are power and V_2's are voltage and the logs are base 10. Since $P = V^2/Z$ (where Z is the impedance),

$$\log \frac{P_1}{P_2} = \log \frac{V_1^2}{V_2^2} = \log \frac{(V_1)^2}{(V_2)} = 2 \log \frac{(V_1)}{(V_2)}$$

Thus, 6 db means quadruple the power and multiply the voltage by 2. (By the way, Columbia Univ's math building at 3010 Broadway has a sign on it saying "log 2 Broadway")

TRUMP ELECTRONICS? (Anthony G Pavick, Latrobe PA) I have an ad from an electronics expo programme, for "Trump Electronics Corporation" of Taipei, Taiwan. The ad features tuner paks, little cassette size/shaped devices, for use in cassette recorders to allow them to act as radios. In addition to FM stereo and AM tuner paks, the ad has pictures of paks for LW (140-400 kHz) and SW (4.8-18 MHz). Does anyone know their availability and performance?

NEW COMPACT SHORTWAVE TRANSMITTER (Emilio Pedro Povrzenic, Jan Latinoamerica-DX, from "Swiss Economic News") The Swiss firm Brown, Boveri & Co. has brought out a new 100-kilowatt shortwave transmitter characterised by its relatively small dimensions and by its compact construction. The question of operating costs has become very important due to the well-known problems of energy supply. The important factors which influence these costs are power and maintenance. This new transmitter completely satisfies these requirements. In program service, total efficiency is around 64%. Address: BBC Aktiengesellschaft, CH-5401 Baden, Switzerland; Telex 52921 BBC CH.

VOLKSWAGENS, FROGS & DRAKES (Ed Stone, New York) Larry Magne recently referred to the FRG-7 as the "Volkswagen of SW radios," on SWL DIGEST. Truth to tell, I've rarely been as happy with a purchase as I am with my now 2-year-old Frog. The band-switch is becoming a bit unstable, the selectivity could be better (no modification on my set), and it does not always work well with my MFJ preselector (this may be the fault of the preselector. Incidentally, I have finally replaced the miniature power jack of the preselector--Model 104C. It has cleared up the shorting-out problems I've always had.) And, I have not had the chance to operate better receivers--which no doubt would spoil me. But the test is that I wouldn't sell it! However, getting back to the original Magne comparison, I don't know if I'd really compare it to a VW. Easily modifiable and sturdy, yes. Inexpensive, no. And the VW had

the annoying fault of acting like an ice sailboat on high bridges on windy days, I hear. My Yaesu seems to stay put where I place it, although I have not yet tried SWLing from a windy bridge. Maybe one of these days...

I enjoyed reading Scott McDonald's comments about Drake receivers. When I first got into SWLing and asked around about receivers, a ham recommended the Drake. I've never had the opportunity to use one, but there certainly is an interesting mix of high performance and spartan design. Some amateurs seem to have a religious devotion to Drake equipment, based upon QSOs that I've heard. That "laboratory equipment performance standard" that they've always tried to live up to may be part of the reason. When I start to think about whether, given a choice between an expensive "sexy" receiver, or an equivalently priced Spartan "laboratory standard..." um, should I take the Fifth?

FIRST IMPRESSIONS OF THE KENWOOD R-600 (Jack Jones, Jackson MS) As of 2320 GMT, Feb. 3 when the UPS man rang my doorbell, I am the owner of a Kenwood R-600 receiver. As many of you know, I have been using a DX-150A for years, and that is the only receiver I can compare it with. I can say (on the basis of that comparison) that I am highly pleased with it; it's a real honey! It ain't no bigger than a bar of washday soap but really gets the job done. Remarkable tone quality for such a small speaker (front mounted) altho I use headphones almost exclusively. There is no hum on my cheap Realistic headset as there was with the DX-150A. Tape output works fine with Realistic recorder. I have had no problems with images nor spurious responses. There are three local BCB stations within a radius of 2-4 miles from my QTH. There are a few spots on the lower bands where they can be heard (weakly) but I would think this could occur in many receivers.

The narrow selectivity position works wonders in getting the in-between stations and certainly cuts down the interference. Really a vast improvement over what I have been used to! It can be used on DC. There is a conversion kit available (DCK-1). I plan to go way out in the wilderness and swamps come spring (where there are no power lines) and enjoy some DXing without the incessant noise I have at my QTH. Needless to say, the digital readout is a real luxury. I can toss my graphs out the window. Mary says she likes those "little green numbers".

CQ AMATEUR RADIO Feb. 1982 has a picture and manufacturer's specs on the new Drake "twins" the TR-7A transceiver and R7A receiver. Also information on the Kenwood R-600 [advertisements] (Rufus Jordan, Pittsburgh PA)

WHERE DID OUR MODERN RECEIVER BEGIN? (Loren Cox, Jr., Corbin KY) See Radio World, Jan. 21, 1933, p. 4 ff.: "A new circuit of startling promise! Anderson-Bernard Invention introduces 1,000 kc bandspread and "step tuning"..The intermediate frequency varied in new circuit..." Collins designs over ten years later were the first commercial application of this principle. The latest synthesized receivers mark the culmination of what A-B envisioned; but achieved, of course, by techniques unknown to or unavailable to them.

I wonder what E. H. Scott would think of today's better receivers. In some respects I suspect he'd be very impressed, especially in regard to MW performance. The AM circuitry in nearly all AM/FM/stereo tuners is, of course, beneath contempt.

Some of the problems we have in today's synthesized receivers are the result of their being designed by computer engineers rather than RF engineers? I sometimes have that suspicion.

SHOWS WE LIKE, MULTI-DAY from p 24

0809-0814 BBC REFLECTIONS 15070 11955 9640 9510
0830-0840 Australia AUSTRALIAN NEWS 15115 11740
0909-0915 BBC BRITISH PRESS REVIEW 15070 9510 6195
0915-0929 BBC WORLD TODAY 15070 11955 11750 9640 T-Sa
1000-1030 China-2 PEKING OPERA 11505 10260 9670 TTSa
1005-1100 FEN OLDTIME RADIO 15260 11750 6155 3910 MF
1025-1030 HCJB LATIN AMERICAN NEWS 11925 9745 6130'
1030-1100 Laos MUSIC AND SONGS 6130
1058-1059*Australia JACKO 9580
1100-1159 AFRTS MORNING EDN 15430 11830 9700 6030 MF
1109-1115 BBC NEWS ABOUT BRITAIN 21710 11750 9510
1110-1125 Australia AUSTRALIAN INSIGHT 9580 M-F
1200-1214 BBC RADIO NEWSREEL 25650 21710 9510 M-Sa
1200-1259 AFRTS MORNING EDN 15430 15330 11830 9700 MF
1212-1227 Australia FOUR CORNERS 17795 9580 5995 MF
1230-1240 Australia AUSTRALIAN NEWS 9580 5995
1258-1259*Australia JACKO 17795
1300-1320 RCI WORLD @ 8 17820 15440 11955 9575 M-F
1309-1329 BBC 24 HOURS 25650 21710 11775 9510 M-F
1312-1327 Australia AUSTRALIAN INSIGHT 11705 M-F
1320-1343 Switzerland DATELINE 25780 21570 21520 M-F
1325-1400 Israel B-net HEBREW SONGS 17630 Su-Th
1330-1345 AFRTS WORLD NEWS MORNING 15430 11830 M-F
1345-1400 DW FOLK/JAZZ/DANCE 21560 17845 15275 M-Sa
1400-1410 India various features 15335 11810
1400-1500 Laos MUSIC & SONGS 6130
1420-1430 Indonesia POP MUSIC 11789
1425-1435 India various features 15335 11810
1430-1500 Cuba FORMALMENTE INFORMAL 11760 9550
1445-1455 Indonesia REGIONAL MUSIC 11789
1449-1519 Netherlands REPORT M/W/F 21480 15560 11740
1454-1459 AFRTS NEWSBREAK 15430 15330 11830 9700 MF
1500-1514 BBC RADIO NEWSREEL 25650 21710 15070
(Sat & Sun also 17830 15260)
1512-1527 Australia AUSTRALIAN INSIGHT 9710 M-F
1515-1559 BBC OUTLOOK 25650 21710 15070 11750 M-F
1530-1545 AFRTS WORLD NEWS ROUNDUP 15430 11830 M-F
1530-1600 Colombia MUSICA REGIONAL 15503 15333
1533- Cuba MELODIAS AMERICA 11760 9550 Tu-Sa
1535-1558 Switzerland DATELINE 21570 M-F
1540-1600 DW MUSIK 21560 M-F
1615-1630 BBC FOCUS ON AFRICA 22930 21470 20455 MF
1615-1659 VOA JAZZ 17785
1615/1700 UAE Radio ARAB CULTURE 21695 21655 17710
1630-1645 AFRTS SPECTRUM+JACK ANDERSON 15330 M-Sa
1645- CFRB GORDON SINCLAIR 6070 1010
1645-1659 BBC WORLD TODAY 21710 17830 15260 M-F

(continued on page 38)

GH'S DX NEWS FOR RCI SWL JIGEST

(Jan. 23-24) WRNO, New Orleans is on the air. They began testing Thursday the 21st around 1900 on 17895. Here's Joseph Costello to tell us more about it: "It's been a very long wait. It's almost at the point of frustration, Glenn, rather than elated joy. We were plagued with about 6 weeks of delays because of just what we refer to as the rainy season here. You know, in other parts of the coun try they get snow; here we get rain, but fortunately we don't have to shovel rain. We have been on the air intermittently with test programming. Our engineers have put the transmitter together, and then the engineers from Harris Corporation, who know the transmitter in and out, are now on site and have been for the last two days. And they're doing things like firing it up at 25 kW, then going to 30 and checking out the tuning. As we operate on several different frequencies during the day. At the present time what they're doing is loading on each frequency and then checking out the transmitter and making sure it'll perform flawlessly once we actually get it on the air. We cannot conduct programming--that is, commercials or full length records and things like that, but we can be on the air with announcements that identify the station. We have a recording of the calliope of the riverboat/steamboat Natchez playing "Way Down Yonder in New Orleens". We also have another version of "South Rampart Street Parade". We will be adhering to the frequency schedule as much as possible. We got several phone calls--one from California, one from North or South Carolina, one from Australia. These are people who took the time... We are mentioning our area code and our telephone number, and if anybody wants to call in during business hours, 9-5 Central Time, we'll be glad to talk to them. We'll take the call immediately to keep the cost down. We would appreciate it. The first one that came in was John O'Connell...Easley, South Carolina, and he picked us up five by five signal on 17895 at 1930 GMT. John heard us yesterday at 25 kW. But last night and today we're firing it up at 100 kilowatts." In Australian DX News, Robert Yeo reports Hargeisa, Somalia active again on 7120, heard with an ID at 1531, mixing with Moscow. Andy Newton in Georgia heard Radio Tanzania on 9685 at 1440. I've been hearing Radio RSA, South Africa with a special broadcast of weather information for a trans Atlantic yacht race, at 2140 on 11860. QTH Africa says that's also the new frequency for the Latin American service from 2200, both parallel 6065. Mitch Sams in Arkansas reports hearing the clandestine programs in English from Ethiopia around 1930 on 9595. And Radio Kiribati on 16433 from 1830, with Radio Australia news at 1900. The station on 6600 drifting to 6598 was IDed at 1215 as Pyongyang, North Korea, not Laos, Vietnam or Moscow. Richard Stoller in New York reports strong clear sig nals from Sa'udi Arabia on 6808 at 0355. He, Joe Hanlon and I find Radio Portugal lately on 6100 at least from 0300 to 0600, to North America. I've complained to Swiss Radio International about poor reception in North America at 1315 due to jamming on 21570 and 21520, so now, since January 18, they have followed my suggestion to add an 11 meter band frequency, 25780 from 1315 to 1515. Under normal conditions, reception is better there tho it's not beamed to North America. Paul Musiak in Massachusetts finds best reception from Radio Polonia in English at 2230 on 7125; Loren Cox in Kentucky prefers 7285. A permanent time-zone change: Horacio Hinojosa Arce reports that Mexico's three eastern states, Campeche, Yucatán and Quintana Roo, have switched to GMT minus 5. The only shortwave station affected is Mérida-6105. Baxter W. Hensley discovered that contrary to reports the Southern Baptists will not issue a QSL for their program on Radio Free Grenada. Ted Powers in Georgia learns from the owner of the Caribbean Beacon that one of their new frequencies on the Turks & Caicos Islands may be 1570; and in American Samoa, 585 kHz. In Venezuela, Ron Schatz discovered that Radio Caribe, Curaçao had moved from 1230 to 1100 kHz. On Radio Nederland's Spanish DX program, Rolando Holzmann reported a new station in Huánuco, Perú, Radio JSV (the initials of its owner), on 6060, and it has a regular DX program. Since January first, the Italian Broadcasting Corporation has a "Good Morning, Europe" program at 0630-0700 on 6275, 7350, 11585 and 21440. Phil Marshall in Georgia heard Dutch pirate Radio Jan Rap, January 17th at 0710 on 6274. A very special mediumwave DX test is scheduled Monday morning the 25th, from a 100-watt station at Grove City College, Pennsylvania, which is normally on the air only four hours a week--WSAJ, 1340, at 0700-0800 GMT, "the rarest DX catch in the USA" [MW test info on the broadcast is normally omitted in these transcripts]. A new pirate from New York City is "WGUT", heard between 0455 and 1000 January first, third and tenth by John Fisher, Scott McClellan and Richard McVicar on 1630; and by Gregg Bares who also had it on 3260. Sam Ward says Radio Finland will have special trilingual election coverage January 26th from 1230 on 21475, 15400, 11755 and 9755. It may last for hours and two different frequencies will be on by 1815, 9615 and 15265. Then on the 27th at 1000 the Inauguration, on the usual frequencies. Miki Včelař says "DX Listeners Log" from KTWR Guam is now scheduled on Saturdays at 0900 on 11840, 1530 on 9505 and maybe at 1445 on 11895. Australian DX News gives the last frequency as 11920. David Newkirk says experimental ham station KK2XJM in Florida is scheduled the weekends of January 22nd and 29th on 18108 with 3 watts.

(Jan. 30-31) Now there are three Salvadorian clandestines instead of one. Robert Wilkner, Steve Reinstein, Andy Newton, Phil Marshall and I have been hearing Radio Farabundo Martí around 1100-1200 and 0130-0230, first on 6914 but more recently on 6900, on either side of Radio Venceremos, whose transmissions overlap. And Radio Unidad is reported on 7000 kHz Saturday and Sunday at 2100-2245. Oman has been reported on a new channel, 15105, in addition to 11890. RCI has expanded Polish at the

expense of English to start at 1545. In Newfoundland, Ed Bromley reports best reception from Poland in English at 1630 on 7125; in Kenora, Ontario, Ernie Behr listens at 1630 and 1830 on 9540 and 9525. I've not heard WRNO New Orleans testing since January 24th, when they were overmodulating. Joseph Costello gives this additional schedule for Sundays only, when regular transmissions begin: 0700-1000 on 6145, 1000-1200 & 1200-1500 on 9715, 1500-1800 on 11940. [& tape of WRNO ID w/"Saints Go Marchin' In"] In DX Front Line, Isao Ugusa reports Voice of the Kampuchean People active at 1100-1330 (Saturday to 1400) on 7385; don't confuse with Savannakhet, Laos, formerly on this frequency. And Isao confirms that last week's BBCMS report on the timechange in Singapore, East & West Malaysia was wrong; they're on GMT plus 8. Alok Das Gupta in Calcutta has heard Malaysia testing on 15345, probably 500 kW, with home service programming between 0030 and 0400. James E McDonald Jr in Pennsylvania found Mongolia in English at 1230 back on 11825 [but contradicted, see next week]. In Latinoamérica DX, Emilio Pedro Povrzenic reports Radio MEC, Brasil reactivated on 17875 at 1045 but announcing new 9770; and 11950. Because of printing delays, the February issue of Review of International Broadcasting cannot be mailed until February first; my apologies. It includes a schedule of news broadcasts in English, and here are a couple of updates: Ron Howard notes Libya's news on 11815 is at 2330, not 2300; on Radio Australia's Japanese DX program, Craig Seager observes Sa'udi Arabia on 11855 with news at 1830, rather than 1915. CBS Radio Mystery Theater now has a new host, Tammy Grimes, replacing E.G. Marshall [Supposedly from Feb. 1, but Marshall was still heard then] These items from Andy Newton in Georgia: Radio Chota, Perú, fair at 2358 on 6296; Rádio Nacional Angola at 1518 on 11955, and a new pirate, Big Ben Radio, on 6840 at 0314 January 24. Bob Padula says the next broadcast from Australian pirate CBN is January 31st GMT at 0400 on 7350; then February 14th at 0001 on 13990. Grant Sharman in California finds good reception of the Soviet Mayak program at 0130-0600 on unlisted frequency 11990.

(Feb. 6-7) Here's the last word on the controversy over Guyana. Kent Sidel visited the GBC transmitter site near Georgetown, and found out that for more than a year, only one shortwave transmitter has been on the air, GBC-2 on 5950. Two other transmitters are out of service; the last other frequency used was 3290, not 5980. The current schedule on 5950 is 0730-0305, extended two hours on Saturday and Sunday mornings; and the 10 kilowatt transmitter is running at half power. Joe Hanlon in Pennsylvania heard Radio Bucaramanga, Colombia, on 4845, both in Spanish and English around 0330. Play-DX reports Radio Anhanguera, Brasil measured on 4914.3 around 0200. Vatican Radio has a new English broadcast which began in January, for Asia, Australia & New Zealand at 0200-0215 except Mondays on 7250, 9605 and 11845. Monday is the best day to hear Mongolia in English at 1200--in DSWCI Shortwave News, Alan Proctor says on that day only, there's no QRMoscow on 12070--where I'm still hearing Ulan Bator, not 11825 as reported last week. David Newkirk in Seattle reports a tentative log of Voice of Malayan Democracy on 6670 at 1338. Sarath Weerakoon in Sri Lanka says signals are too good to be a mobile unit in the jungle; Malay is now at 1215-1300, Chinese 1300-1330 parallel to 3525 variable. On January 23rd, Sarath says Nepal returned to 5005 from 4995; and Bhutan continues to vary--between 4605 and 4620; on January 22nd, Victor Goonetilleke heard them around 4608. Karl Forth in Chicago hears DYBS, South Yemen on 6005 most nights at 0305 past 0340. From Québec, Victor C Jaar observes Kuwait on several new frequencies in Arabic: 15495 and 9880 (besides 9840) most of the day; 11675 at 0445, 5950 at 2105, 11990 after 1400. Radio RSA has announced another airing for DX Corner, Saturdays at 1530 on 25790, 21535 and 15220. If you're trying to hear the CBC Northern Québec Shortwave Service, you may find better reception on 2nd harmonics--I was listening to 23440 at 1940; Richard Stoller heard 12130 at 1223; and two others to check are 19250, and after midnight, 12390. Jim Conrad and Larry Magne reports there's a good chance that WRNO New Orleans would start regular programming this weekend, following very little test activity for the past two weeks [it did not]. On January 14th, Media Network reported that Madagascar's new 100-kilowatt shortwave transmitter on 7105 would be officially opened on February 10th. QTH Africa reported January 20th that the 0300-2100 tests were no longer heard, just BBC Ascension on the frequency, and later, Swazi Music Radio. Steve Reinstein in Florida heard the rarely reported 90-meter frequency of Radio Botswana, 3356 from 0351 parallel to the usual 4845, and Radio Mambí, La Voz de la Junta Patriótica Cubana, at 0103-0121 on 7082, giving a schedule of 7 am and 8 pm daily between 7070 and 7080, and giving their address as Box 68045, Caracas, Venezuela; they also played the interval signal of La Voz de Alpha 66. Here's the other side of the WYFR arrangement with Voice of Free China: 1205-1605 on 15370, 1402-1702 on 9600. That amounts to 7 hours Taiwan is carrying WYFR; while we know WYFR carries at least 9 transmitter hours of VOFC. David Newkirk says weekend tests from experimental ham station KK2XJM in Florida from February 5th and 12th are on 24930 with 3 watts. Gordon Darling in the UK reported hearing the previous 3-watt tests on that frequency. And David says starting in 1982, hams in several other countries are using the band 10100-10150 kHz in CW or teletype: Great Britain, Solomon Islands Philippines, New Zealand and South Africa.

(continued next page)

MONITORING TIMES is a new bi-monthly newsprint magazine published by Grove Enterprises. Jan/Feb issue was 8 pages; besides Grove and other ads, articles on tuning in smugglers, scanner DX, etc.; primarily utility (non-broadcast) oriented. Free to those on mailing list. Call 1-800-438-8156.

(Feb. 13-14) El Salvador is one of the world's hot spots, attracting more and more attention as the March 28th elections approach. In Albany, New York, Al Quaglieri finds the government station, Radio Nacional in the clear around 1200 GMT on 9553 variable; don't confuse with North Korea also in Spanish on 9555. El Salvador can also be heard occasionally in the evenings around 0100. Also check 5980 and 655 kHz. Now for the anti-government FMLN stations: I've heard Radio Venceremos on 6907 lately, daily at 1200-1300 GMT and 0000-0100, extended GMT Sunday and Monday to 0130--and on Sunday also at 1400-1600. Radio Farabundo Martí, on 6896 varying to 6905, and an unconfirmed frequency of 6000, daily at 1100-1200 and GMT Tuesday-Saturday 0100-0200; on Sunday and Monday half an hour later, at 0130-0230. And Radio Unidad, 7000 kHz, GMT Saturday and Sunday only at 0100-0200, contrary to previous reports. These three stations are supposedly at three different battle fronts in El Salvador. In the south of France, Jean-Jacques Bloch proves that these can be heard in Europe--Radio Venceremos on 6906.5 at 0050-0132; and Radio Farabundo Martí on 6900 at 0135-0202. He also heard an anti-Castro station, probably La Voz de Alpha 66, drifting from 7034 at 0210 to 7043 at 0305; and Nicaraguan clandestine Radio 15 de Septiembre on 5565 at 0310-0352. Don Moore, who's just moved from Pennsylvania to Honduras, has a preliminary report on the Honduran shortwave stations currently active--the ones on 3250, 4820, 4890 and 4910; and mornings only, Juticalpa on 4780. The Honduran army also intercepted 3 truckloads of radio equipment in Ocotepeque, destined for El Salvador or Guatemala. Sarath Weerakoon in Sri Lanka observed Voice of the People of Burma reactivated on 5110, New Year's Day at 1200-1410 parallel to 7570, but not heard since. Mitch Sams in Arkansas has heard another country entering the new 22 meter band, Radio Pakistan, Islamabad on 13607 at 1715 to closing at 1730. Ron Howard in California has been monitoring All India Radio on 4860. A 7-minute transmission at 0128 is believed to be from Kashmir, while from sign-on 1233 past 1500, partly in English, it's from Delhi. During favorable conditions, I've noted Capital Radio, Transkei, South Africa, dominating 11750 around 0450. QTH Africa says the 41 meter band outlet is now 7160 and it's 24 hours. And Belgium's African frequency, including English Sunday 1900-1945 has moved from 15285 to 15570. On Radio Australia's Japanese DX program, Shigenori Aoki reports Vatican Radio using 7450 to Europe between 1530 and 2200. Their schedule shows 7250. And Radio Vaticana is now covering the Pope's visit to Africa. Tony Pavick and Mitch Sams have been hearing a very distorted and unidentified Brazilian around 15045 to 15059, apparently in São Paulo, at 0730, 2330 and 0145-0445; it could be a third harmonic. Gregg Bares says Dutch pirate Radio Jan Rap is testing February 14th & 28th at 0500 on 6274 or 6281; February 21st at 0500 on 7390. (continued next page)

AWARDS BALLOT

For 1982, the annual RIB listeners Choice Awards for Excellence in International Broadcasting will be selected by ballot of all RIB subscribers. These awards are important and helpful to international broadcast stations in that they indicate which stations, programs, and broadcasters are making an impression among North American shortwave listeners. Please help by filling out this ballot and returning it by April 30, 1982, to Kim Andrew Elliott, Dept. of Communication Studies, Machmer Hall, University of Massachusetts, Amherst MA 01003 USA. Thanks!

Favorite Stations: List up to five of your favorite shortwave broadcast stations (U.S. included), in order of preference. Give the name of the station, not just the country.

1. _____

2. _____

3. _____

4. _____

5. _____

Favorite Programs: List up to ten of your favorite shortwave broadcast programs, in order of preference. Give the exact name of the program. If the program has no name per se, describe it as precisely as possible.

1. Program _____

   Station _____

2. Program _____

   Station _____

3. Program _____

   Station _____

4. Program _____

   Station _____

5. Program _____

   Station _____

6. Program _____

   Station _____

(over)

RIB AWARDS BALLOT (continued)

7. Program _____

Station _____

8. Program _____

Station _____

9. Program _____

Station _____

10. Program _____

Station _____

Favorite Broadcasters: List up to five of your favorite shortwave broadcasters, that is, persons who are heard on shortwave broadcast stations. List in order of preference.

1. _____

2. _____

3. _____

4. _____

5. _____

Optional: Please use the space below for comments, pro and/or con, about shortwave broadcast programming. Use an additional sheet of paper if necessary...

SHOWS WE LIKE, MULTI-DAY, from p 34

1709-1723 BBC FOCUS ON AFRICA 22930 21470 20455
1745-1800 DW MUSIK 17875 M-Sa /M-F
1754-1759 AFRTS NEWSBREAK 15345 15330 11830 9700
1830-1900 VOA JAZZ 17785 /M-F
1835- *AFRTS PROGRAM NOTES 15430 15330 11830 /
1904-1929 CBCNQSWS DRAMA/READINGS 11720 9625 M-F
1917-1929 AFRTS PAUL HARVEY 15430 15345 15330 M-S
1925-1930 HCJB LATIN AMERICAN NEWS 26020 21477½MF
1930-1945 AFRTS SPECTRUM+ANDERSON as 1917 M-Sa
1933- Cuba MELODIAS AMERICA 17750 11725 Tu-Sa
1940-2000 DW MUSIK 21600 15355 M-F
1950/1955 Iraq VOICE OF ARAB SYRIA 21585
2009-2029 BBC 24 HOURS 15260 15070 12095 11750 MF
2015-2100 VOA MUSIC USA JAZZ 15140 M-Sa
2030-2035 AFRTS REST OF STORY 15430 15330 M-F
2049-2119 Netherlands REPORT 21685 17695 17605 MW
2117-2129 AFRTS PAUL HARVEY 21570 15430 15330 M-S
2130-2158 AFRTS COMMENTARIES as above
2145-2200 DW MUSIK 15275 17860 M-Sa
2150-2213 Switzerland DATELINE 21585 15305 M-F
2200-2201 VOA PROGRAM PREVIEWS 21460
2200-2229 CBC WORLD AT SIX 15325 M-F
2200-2329 AFRTS ALL THINGS CONSIDERED 25615 21570 15430 15345 15330 (Sat/Sun 2200-2259)
2209-2223 BBC WORLD TODAY 15420 15260 12095 M-F
2230-2236 Grenada OBITUARIES 15045 M-Sa
2230-2257 CBC AS IT HAPPENS 15325 M-F
2239-2244 BBC REFLECTIONS 15420 15260 15070 9410
2245-2300 Cuba CAMPESINA Su/T/T/Sa 11760 6060
2300-2329 CBC WORLD AT SIX 11850 5960 M-F
2300-2330 Colombia MUSICA TRADICIONAL 15503 15334
2300-2330 Grenada TONIGHT 15045 M-F
2309-2315 BBC COMMENTARY 15420 15260 11910 9590
2312-2327 Australia AUSTRALIAN INSIGHT 21650 M-F
2325/2335 Moscow POZNER DAILY TALK 9610
2330-2350 AFRTS WORLD TODAY 25615 21570 15330 M-F
2330-2400 Cuba FORMALMENTE INFORMAL 11760 6060
2330-2459 CBC AS IT HAPPENS 11850 5960 M-F
2340-2400 DW MUSIK 15410 9735 6075 M-F
2345-2355 WLS ANIMAL NEWS 890

DX NEWS, contd from p 37 Jeff Brown, Frank Decker, Scott McClellan and Andrew Wallace heard a new one, Pirate Radio Central, on 1616 kHz, Sun. Jan. 31 with a professional sound between 0530 & 0933. And Andrew Wallace in Massachusetts heard pirate WOIS testing Feb 6th at 1814-2119 on 14445 and later 14453.

WORLD OF RADIO from DENVER's KNUS-710 rescheduled to Sundays 6:04 am (MT). Positive listener response to KNUS might help keep it going there.

NO $2 TOILETS [see p 5] at World's Fair--local columnist says that was a joke, son. Rest is true

READ GH's BOOK SONY has just published Directory of World Band Radio by gh, some of which will be familiar to RIB readers, with lots of new material introducing SW to newcomers. $7.95 at Sony dealers. (If they don't have it yet, ask when!)

Feb RIB was very late and no one was more impatient than gh; printer was moving, Knoxville was iced up, etc. Mailed Feb 1 so missing-copy inquiries could only be disregarded, to Feb 8 or so.

CLEAR CHANNELS

By Ken MacHarg

CBSMT--The actress Tammy Grimes took over the MC job on CBSMT as of Feb. 1. She replaced E.G. Marshall who said "I'm forced to bow out because of my difficult assignment schedule...She brings to MT a wonderful voice that gives words resonance beyond the sum of their letters". Grimes has starred in a number of CBSMT dramas over the past five years. [Marshall still on Tue & Thu reruns]

KDIA (1310 PT)--KDIA has scheduled a special series, PIONEERS IN BLACK HISTORY, for Feb., Black History Month. The series focus on important Black persons, Blacks in sports, Nat. Assoc. of Colored Women, role of the Black press, and the Black Church. It airs M-F 6:55,7:55 a.m. and 4:55 and 5:55 p.m. [KDIA is in Oakland CA]

WQXR (1560 ET)--The NY Times Classical Music station features the music of Erich Leinsdorf on SYMPHONY HALL, weeknights at 8:05 throughout February.

KING (1090 PT)--A new program, SOLID GOLD SATURDAY NIGHT has been added to the KING program sked. It is aired from 6-11 p.m., Sat. Evenings, and originates with WFYR in Chicago. It is fed by RKO Two net. Host is Dick Bartley, who, it is said, has one of the largest personal collections of oldies records in the country.

WOR (ET)--Those who listen to Pegeen and Edward Fitzgerald in their unique talk show which is broadcast from their apartment each night might be interested in the article "Radio couple garners devoted following over 44 years" in the January 13 Christian Science Monitor. [710; 60th anniv 2/28]

NIGHT TALK--Night Talk is the name of an all-night talk show on NBN, the National Black Network. It began in November, and runs five hours per night, Tues through Sat. Host is Bob Law, who has quite a background in broadcasting. Although the program is aimed at a primarily Black audience, the times I have heard it indicates that the subject matter is broad, and draws callers from all groups. I don't think it is on any 50kw station, but I have been hearing it here in the Louisville area on a regular basis from WAOK (1380 ET) in Atlanta.

WCKY (1530 ET)--Subscribing to more than one network can be hazardous to your health, if you are a radio station operator. WCKY is a CBS affiliate, but also subscribes to at least one, perhaps two ABC services, plus APR. This led to some confusion on a recent Saturday afternoon (Jan. 30th) when at promptly two o'clock the announcer gave the time, station ID, and cued in...ABC/I news. This ran for about two minutes, then much silence before going back to regular weekend music prog.

WWWE (1100 ET)--In keeping with the recent format change to country music on 3WE, they have applied for a call-letter change. If approved, they will become WUSA. I am sure they will still call themselves "Country Eleven". I wonder if the FCC will let them have their new call? Meanwhile back when they made the switch to country music, their big competator, WGAR didn't lose any time. I heard them on several occasions welcome their "new listeners", commenting that it was too bad that "other stations" didn't care enough about them to keep them, but WGAR sure did, and would provide all sorts of music, news, sports, etc. to keep them happy!

THAT'S ALL FOLKS--Send CC info to Ken MacHarg, 3813 Utica Pike, Jeffersonville, Indiana 47130.

GBS NEWSMARK Feb 27: "Personal Computers: The Electronic Cottage". MYSTERY THEATER, March: 1 The Blue Sedan, 2 The Silver Mirror, 3 Death Star, 4 Too Early, Too Late, 5 Death at a Distance, 8 First Impressions, 9 The Acquisition, 10 Heart of Boadicea, 11 The Last Orbit, 12 The New Man at the Yard

CBC NIGHTFALL March 5 Volcano, transforming boxer; March 12 The Monkey's Raincoat, assassination...

(ADVERTISEMENT)

614-866-4267

UNIVERSAL AMATEUR RADIO INC.
1280 AIDA DRIVE
REYNOLDSBURG (COLUMBUS) OHIO 43068

For sale - Demonstrator JRC NRD-505 Receiver absolutely like new, regular $2,275.00, one only at $1,449.00

McKay Dymec DR 22 excellent condition. only $925.

Drake R7, with NB7A, 4.0, 1.8, .5 and .3 KHZ filters, really nice, less than a year old, only $1,249.00.

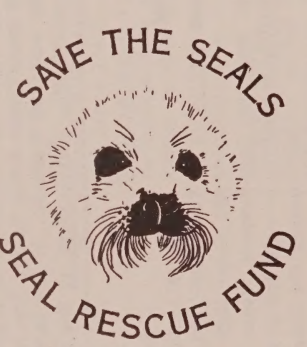
New Equipment

JRC-NRD-515, Drake R7A, Kenwood R-1000 and R-600 Yaesu FRG-7700, Sony ICF-2001, Panasonic RF-3100 MFJ Model 1020 active antenna, Headphones by Kenwood, Yaesu and Japan Radio Company. Write or call for prices and literature. Dealers wanted for Japan Radio Co. Receivers. We also have RTTY receiving equipment by HAL Communications, Info-Tech, Kantronics and Drake. World Radio TV Handbook $14.50 plus $1.50 postage and handling.

Review of International Broadcasting
GLENN HAUSER
Box 6287
Knoxville TN 37914-0287

FIRST CLASS
PERMIT NO. 586
U.S. POSTAGE
PAID
KNOXVILLE TN

FIRST CLASS MAIL



SUBSCRIPTION INFORMATION For 12 issues by first class in North America, US$15. Elsewhere US$16. Overseas airmail: Caribbean, Central America, Colombia & Venezuela US$20; rest of Latin America, Europe, North Africa US$22; rest of Africa, USSR, Asia & Oceania US$24. Samples $1.25 in North America (mint stamps accepted for this only); elsewhere, US$2.00 (or 8 IRCs accepted for this only). Remittances must be payable to Glenn Hauser, or R.I.B., and must be in US funds and drawn on a US bank! Fractional or multiple-year subscriptions are not accepted. Please do not request a sample more than once.

WHEN WRITING ABOUT YOUR SUBSCRIPTION, to subscribe, renew, change address, advise of defective or missing copy, PLEASE BE SURE to include the number on your address label. We will NOT be responsible for missing or duplicate issues if you do not give the code number on your mailing label.

PURPOSE OF RIB To provide program information, and an open forum for the discussion of programming on shortwave, and secondarily on other media; and for the discussion of related topics. Please do not ask the editor for personal advice on receivers or other equipment.

DISCLAIMER The opinions expressed in RIB are those of the person to whom attributed. The editor/publisher expressly disclaims any liability. Any material sent to RIB which is not intended for publication should be so specified; otherwise it will be considered open to publication. Unless reprinted or copyrighted elsewhere, all material published in RIB becomes the property of RIB, including subsequent adaptation, reprinting, and/or broadcasting, always with proper attribution, unless otherwise agreed.

REPRINTING OR BROADCASTING FROM RIB Excerpts may be quoted, provided full credit is given to the original contributor and to RIB. The editor would appreciate a copy of the script or publication quoting from RIB.

RIB ON THE AIR GH presents brief excerpts of RIB on the fourth Thursday of each month MEDIA NETWORK program, Radio Netherlands; and on GH's weekly half-hour program available to North American stations, WORLD OF RADIO.

RIB CENTER FEATURES Shows We Like, recommended programs by time, four times a year (updates other months); Broadcasts in English, times and frequencies by country, four times a year; News in English, and DX Programs in English, each twice a year.

RIB DEADLINES Friday, normally the first or second in the month; publication within 10 days; subject to change for the editor's convenience.

LISTENERS NOTEBOOK complements RIB; samples $1, only from North American Shortwave Association, Box 13, Liberty IN 47353.

0 549603

TIME TO RENEW? If there is a 62 on your address label, this is the last issue of RIB on your present subscription. This is the only notice you will receive. Thanks for your cooperation, and I hope you enjoy your next year with RIB! (gh)